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MICROMETRICAL MEASURES OF NEBULAE

1905 to 1910

CINCINNATI

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OF NEBULAE

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By

JERMAIN G. PORTER, A. M., Ph. D.
DIRECTOR.



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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT
CHICAGO, ILL.

Preface.

THE sixteen-inch Clark refractor was mounted in the spring of 1904. The remainder of that year was spent in testing the telescope and in making miscellaneous observations of planets and comets. It was then decided to take up systematic work along the line of observing those nebulae of Dreyer's New General Catalogue which lie south of the equator. This would give the opportunity of repeating the measures made in 1884-86 with the old eleven-inch, and of furnishing accurate positions of many nebulae too far south to be readily reached by European observers.

After the work was well under way it was learned that M. Bigourdan of the Paris observatory had undertaken the re-observation so far as possible of all the N. G. C. nebulae. A comparison of that part of his results already published indicates that about one-fifth of the nebulae measured here were not secured at Paris. These are for the most part objects far to the south. It is also true that M. Bigourdan measured a considerable number of nebulae south of the equator not contained in the present catalogue. As a matter of fact these objects were usually glimpsed and could have been measured on the few really clear nights which we have at Cincinnati; but in order to finish the work within a reasonable time it was necessary to use many nights when the sky was more or less affected by smoke or vapor. Unless a nebulae could be seen well enough to render the determination of its position fairly certain no attempt was made to make micrometrical settings on it. Frankly the conditions here are not favorable to work on very faint objects. Such investigations can be much more profitably carried on at stations remote from large cities and in climates where the air is freer from vapor.

For a considerable number of nebulae the positions here recorded are the first accurate ones published. The discovery of new objects was no part of the program, but a few were run across incidentally. Of the seventeen designated Novae nine are certainly new so far as I am aware. The rest are probably identical with N. G. C. numbers, as will be seen from the notes. Where the discrepancy was greater than half a minute of time I have retained the designation Nova.

In this connection I can not forbear contrasting the work of the Herschel's in this field with that of some modern observers. While there are errors in the Herschel's positions, the percentage is remarkably small. On the other hand out of thirty-one nebulae catalogued by Lewis Swift which I have remeasured, only one comes within reasonable limits of error, and in several cases the discordance is so great as to make identification doubtful.

From June, 1905, when the work was commenced, until March, 1906, a bar micrometer was employed. This micrometer, which had been previously used to some extent in comet observations, consists of three bars crossing each other at angles of 60° . One bar is used for orienting the instrument, and transits are taken over both edges of the others. In all cases the comparison star was so chosen as to pass the same side of the center as the nebula, and sets were taken both above and below the center. In this way practically all constant error is eliminated. Upon the installation of the new filar micrometer constructed by Saegmuller, however, these measures were all repeated.

PREFACE

Each night's observation of a nebula with the filar micrometer consisted in from two to four measures of the difference of declination, and at least two sets of transits recorded on the chronograph, two wires being used in each set.

Great pains has been taken to secure reliable positions of the comparison stars. If no modern catalogue position was available the star used was either determined with our meridian circle, or, if too faint, compared micrometrically with other stars. For the meridian circle observations of comparison stars I am indebted to Dr. Elliott Smith. At least two observations of each star have been made. Final positions of these stars will be incorporated in the Cincinnati Catalogue for 1910.

In the following pages are given :

1. The micrometrical measures of comparison stars. The differences have been reduced for precession to 1900.
2. The complete list of comparison stars for 1900. The numbers in the last column after the equatorially determined stars refer to the first table.
3. The micrometrical measures of nebulae, the differences being first given as observed, and then in connection with the comparison star the mean value reduced to 1900 for precession and where necessary proper motion.
4. The resulting catalogue of nebula positions.
October, 1910.

JERMAIN G. PORTER.



Micrometrical Measures of Comparison Stars.

No.	Epoch of Comparison.	$\Delta \alpha$ 1900.	$\Delta \delta$ 1900.	Star Compared With		Authority.
				α 1900.	δ 1900.	
		M. S.	' "	H. M. S.	° ' "	
1	1905.9	+ 7 18.70	+ 5 04.1	0 22 31.02	-32 22 57.6	Cor. G. C. 369, Cape 80 161
2	1905.9	+ 4 19.77	- 1 47.2	25 55.78	-10 38 11.6	Cor. G. C. 431, R ₃ 97
3	1905.9	+ 2 12.03	- 7 31.9	28 03.34	-10 32 22.3	Cin. 1910
4	1905.9	- 1 34.93	- 3 14.3	34 17.37	-20 24 37.3	Cin. 1910
5	1908.9	+ 3 48.48	+14 34.8	31 01.56	-15 31 19.8	R ₃ 114, W. Z.
6	1905.9	+ 3 59.86	- 0 20.1	0 51 08.99	- 8 06 59.7	A G ₂ II 191
7	1909.9	+ 0 18.28	+14 15.7	55 48.48	- 9 54 46.8	A G ₂ II 206
8	1906.0	- 0 15.33	-11 29.5	1 43 45.46	-15 15 46.8	Bord. 358, W. Z., Cin. 1910
9	1907.9	- 0 31.31	-11 12.1	49 01.48	- 9 08 45.9	A G ₂ II 391
10	1906.9	- 4 05.15	+ 2 08.8	55 42.90	-30 21 00.9	Cor. Z. 1 ^b , 1443
11	1907.9	+ 1 14.42	- 9 35.5	1 56 55.62	-10 14 29.7	Cin. 1910.
12	1907.9	- 0 58.23	-19 08.0	2 10 05.85	- 0 52 56.1	A G ₁ XV 447
13	1907.9	- 2 46.54	+11 25.0	19 39.64	- 6 20 46.3	A G ₂ II 530
14	1908.0	+ 2 35.82	+ 9 23.8	17 40.48	-25 39 13.7	Cor. G. C. 2429
15	1906.0	- 4 10.92	+ 0 53.8	27 03.11	- 1 38 13.5	A G ₁ XV 513
16	1906.0	- 2 02.91	+ 2 41.2	2 44 05.06	- 8 06 00.8	Cin ₁ 343, A G ₂ II 631
17	1908.0	+ 2 09.98	+ 7 55.7	46 13.62	-10 39 52.0	Cin. 1910
18	1908.0	+ 3 00.34	+17 36.4	46 13.62	-10 39 52.0	Cin. 1910
19	1910.0	- 0 24.81	-14 25.3	3 00 22.47	-26 10 04.3	Cor. G. C. 3325
20	1909.0	+ 2 10.94	-10 18.4	2 57 50.72	-15 40 02.4	Bord. 640, W. Z.
21	1909.0	- 1 27.81	+11 24.8	3 04 33.60	- 1 23 05.7	A G ₁ XV 669
22	1906.0	+11 59.55	- 2 39.5	2 54 41.82	-11 04 51.6	Cin. 1910
23	1906.0	- 0 21.07	-18 36.5	3 07 02.46	-10 48 53.2	Cin. 1910
24	1909.0	- 0 55.11	+ 7 28.6	19 57.46	-22 01 11.6	Cin. 1910
25	1908.0	- 1 31.11	- 1 47.4	24 51.42	-21 42 55.8	Cin ₁ 403
26	1908.1	+ 2 50.62	+ 4 09.6	3 31 17.19	-26 45 45.1	Cor. G. C. 3947
27	1906.1	- 4 46.55	+ 0 07.1	45 18.94	- 4 11 30.4	A G ₂ I 951
28	1910.1	+ 2 35.23	+ 0 32.5	38 15.20	-22 17 53.6	Cin. 1910
29	1906.1	+ 2 00.26	+12 17.1	38 55.80	- 4 35 45.2	A G ₂ I 922
30	1906.1	- 4 22.76	-11 58.0	45 18.94	- 4 11 30.4	A G ₂ I 951
31	1910.0	+ 3 05.92	+ 3 54.6	3 40 37.23	-16 43 28.3	Bord. 788, W. Z.
32	1906.1	+ 1 43.98	+ 6 30.1	4 36 34.94	- 2 38 36.2	A G ₂ I 1236
33	1906.1	- 3 08.30	- 8 11.7	41 27.39	- 2 23 53.3	Cin. 1910
34	1910.1	+ 0 34.87	+ 8 13.3	5 16 18.13	-11 42 54.7	Cin. 1910
35	1906.1	- 0 44.26	- 0 31.9	6 55 18.60	- 7 39 07.2	Cin ₁ 692, A G ₂ II 2329
36	1907.1	+ 1 09.12	+ 5 32.1	7 19 12.13	-27 27 11.8	Cin. 1910
37	1910.1	- 0 10.30	+ 4 59.4	9 18 53.29	-22 39 19.3	Cin. 1910
38	1910.3	+ 2 23.38	- 5 18.6	30 00.36	-11 40 45.8	Cin ₁ 882, Cin. 1910
39	1906.2	- 1 32.75	- 8 22.6	46 26.80	- 4 30 12.0	A G ₂ I 3835
40	1906.0	+ 1 06.87	+18 35.8	11 25 18.67	-13 54 31.8	Cin. 1910

No.	Epoch of Com- parison.	$\Delta \alpha$ 1900.	$\Delta \delta$ 1900.	Star Compared With		Authority.
				α 1900.	δ 1900.	
		M. S.	" "	H. M. S.	" / "	
41	1908.3	+ 2 41.58	+ 3 15.9	11 24 34.02	— 9 30 40.2	A G ₂ II 4303
42	1907.4	+ 1 46.55	— 14 01.7	12 40 46.21	— 2 29 04.1	A G ₂ I 4675
43	1906.4	+ 0 05.14	+ 13 48.6	48 42.21	— 6 31 01.0	A G ₂ II 4669
44	1907.4	— 2 37.66	+ 6 14.5	52 21.82	— 12 16 12.4	Cin ₂ 1084
45	1907.4	— 2 02.56	+ 3 38.6	57 38.02	— 14 02 57.5	Cin. 1910
46	1907.4	— 1 59.25	+ 5 57.7	12 57 38.02	— 14 02 57.5	Cin. 1910
47	1908.4	— 0 21.34	+ 8 58.3	13 10 29.05	— 15 44 46.1	Bord. 3986, W. Z., Cin. 1910
48	1908.4	+ 1 24.18	+ 7 02.2	23 51.13	— 17 30 45.3	Cin. 1910
49	1906.4	— 1 18.65	— 2 03.4	30 44.81	— 0 27 10.8	A G ₁ XV 3606
50	1906.4	— 1 42.12	— 4 07.6	31 08.16	— 0 25 07.3	Cin ₂ 1167, Cin. 1910
51	1906.5	+ 3 12.19	— 4 32.4	14 02 59.16	— 0 34 18.9	A G ₁ XV 3692
52	1910.3	+ 3 34.25	+ 6 18.6	51 23.83	— 13 50 36.7	Cin. 1910
53	1905.5	— 1 16.25	+ 3 42.4	15 04 32.05	— 10 52 55.4	Cin. 1910
54	1905.5	+ 3 26.33	+ 12 35.6	13 26.71	— 2 26 02.4	A G ₂ I 5350
55	1905.5	+ 1 15.50	— 10 38.6	15 37.42	— 2 02 52.0	Cin ₁ 1285, A G ₂ I 5361
56	1905.5	— 6 33.96	— 0 08.7	15 23 26.97	— 2 13 19.8	A G ₂ I 5399
57	1905.5	+ 7 27.87	+ 3 23.9	25 01.77	— 16 15 59.1	R ₃ 3998, Gr. II 109 3911, W. Z.
58	1910.4	— 0 03.69	— 15 05.8	42 51.28	— 13 11 27.9	R ₃ 4076
59	1910.4	— 1 00.70	+ 13 23.4	43 48.43	— 13 39 55.1	Cin. 1910
60	1906.8	+ 0 05.15	+ 14 37.8	21 27 57.03	— 1 47 45.1	A G ₂ I 7528
61	1906.8	— 1 25.12	+ 6 06.8	22 17 07.35	— 16 21 16.9	W. Z., Cin. 1910
62	1906.8	— 2 32.30	— 9 48.0	18 14.37	— 16 05 23.8	Bord. 6597, W. Z., Cin. 1910
63	1906.8	+ 3 50.72	— 3 03.0	24 40.74	— 13 25 37.7	R ₃ 6034, Gr. II 109 6284, Cape 00 3124
64	1906.8	— 0 03.50	+ 9 33.5	39 10.15	— 1 02 37.8	A G ₁ XV 5711
65	1906.8	+ 3 06.70	+ 1 43.0	49 09.63	— 1 34 50.4	A G ₁ XV 5739
66	1905.8	+ 1 02.95	+ 10 52.2	23 27 47.01	— 3 34 06.2	A G ₂ I 8083

Catalogue of Comparison Stars.

No.	Mag.	Right Ascension	Parallax	Decl. 1950	Proper Motion	Remarks
1	8	04 21.70		-12 35 29.8	19.048	Cor. G. C. 450
2	8	05 37.96		- 6 13 38.8	20.046	A G ₂ II 123
3	7	09 03.00		- 7 45 11.6	20.036	A G ₂ II 125
4	8.5	12 41.44		- 6 42 32.1	20.021	A G ₂ II 146
5	8	16 06.26	3.0664	- 3 52 07.8	20.003	A G ₂ I 68
6	8.5	22 48.38	3.0661	- 2 14 06.4	19.973	A G ₂ I 97
7	5	22 58.10	2.0840	-33 33 33.0	19.984	Comp. No. 1041 (incl. P)
8	0	23 22.08	3.0654	- 3 03 58.2	19.948	A G ₂ I 98
9	8.5	27 00.42	3.0560	- 5 43 48.5	19.913	A G ₂ I 111
10	0	27 39.10	2.0852	-28 32 03.7	19.906	Cor. G. C. 459
11	8.5	28 03.35	3.0661	-10 32 22.3	+19.902	Cor. 1910
12	0	28 10.36	3.0400	-11 16 49.5	19.900	Cor. 1910
13	8.5	29 33.79	3.0400	- 8 50 56.4	19.888	Cin ₁ 57, A G ₂ II 107
14	0	29 49.72	2.0630	-32 17 53.5	19.883	Equa. 1
15	8.5	30 15.46	3.0661	10 39 56.5	19.878	Equa. 2, 3
16	8	31 17.82	+3.0439	- 9 00 15.1	+19.865	A G ₂ II 121
17	8	32 33.63	3.0406	- 9 37 25.1	19.850	A G ₂ II 125
18	0.5	32 42.44	3.0018	20 27 51.6	19.848	Equa. 4
19	0	33 36.98	3.0011	-14 46 58.8	19.837	W. Z., Cin. 1910
20	8.5	34 56.04	3.0174	-15 16 45.0	19.821	Equa. 5
21	8.5	35 02.16	3.0661	-14 26 01.8	+19.818	Cin. 69, W. Z.
22	8.5	35 50.54	3.0114	-10 30 33.1	19.807	Duns ₆ 24, Cin. 1910
23	8.5	36 03.98	3.0652	- 2 03 59.6	19.804	A G ₂ I 145
24	8	37 21.43	3.0703	- 0 38 56.0	19.786	A G ₂ XV 118
25	8.5	37 55.69	3.0661	- 4 24 16.1	19.778	A G ₂ I 142
26	8	39 42.05	+3.0060	-15 56 01.5	19.777	W. Z., Cin. 1910
27	7.5	41 12.31	3.0661	-11 59 52.8	19.769	Cin. 1910
28	8	41 37.36	3.0598	- 3 04 20.1	19.722	A G ₂ I 166
29	8	42 25.38	3.0661	-25 55 39.0	19.716	Cor. G. C. 722
30	9	42 49.93	3.0661	-25 56 28.6	19.706	Cor. G. C. 724
31	8	42 47.78	+3.0634	- 2 08 58.8	+19.703	A G ₂ I 171
32	9	44 31.52	3.0560	- 3 34 28.9	19.675	A G ₂ I 178
33	8.5	45 18.27	3.0466	- 5 49 19.2	19.662	A G ₂ I 180
34	8.5	45 41.05	3.0613	- 2 27 52.8	19.650	A G ₂ I 182
35	8	46 34.25	3.0283	- 9 21 45.6	19.640	A G ₂ II 168
36	8	46 45.90	+2.0963	-31 31 47.3	19.636	Cor. G. C. 776
37	8	46 51.06	3.0362	- 7 40 08.4	19.635	A G ₂ II 172
38	8	46 56.04	3.0602	- 2 38 46.3	19.611	A G ₂ I 188
39	8.5	47 04.42	3.0011	-31 30 11.7	19.601	Cor. G. C. 779
40	6	50 39.13	3.0661	- 7 53 15.6	19.564	R. 101, A G ₂ II 188

No.	M.	R. A.	Pre.	Decl.	Pos.	Authority.
		H. M. S.	S.	"	"	
41	0	0 51 13.51	+3.0186	-10 20 56.4	10.553	Cin. 1910
42	0	53 43.44	3.0274	- 8 17 24.7	10.504	A G ₂ II 199
43	8	54 37.46	3.0450	4 51 39.7	10.485	A G ₂ I 216
44	10	55 08.85	3.0265	- 8 07 19.8	10.474	Equa. 6
45	7.5	55 48.48	3.0164	- 9 54 46.8	10.460	A G ₂ II 206
46	0.5	0 56 06.76	+3.0174	- 9 40 31.1	10.454	Equa. 7
47	7.5	56 30.97	3.0307	7 20 16.7	10.445	A G ₂ II 208
48	8.5	56 37.89	3.0354	- 6 30 57.0	10.443	A G ₂ II 200
49	0	57 19.52	3.0577	- 2 35 44.1	10.428	A G ₂ I 229
50	8	1 01 18.43	3.0648	- 1 17 00.5	10.330	A G ₁ XV 213
51	8	1 06 44.38	+3.0661	0 58 38.1	+10.208	A G ₁ XV 225
52	8.5	08 40.45	2.8219	-32 26 16.4	10.150	Cor. G. C. 1138
53	6	09 42.75	3.0621	- 1 30 32.8	10.132	Cin. 86, Lick Pl. $\mu = 0''.005$ $\mu' = 0''.21$
54	0.5	11 31.98	3.0572	- 2 09 29.9	10.083	A G ₂ I 288
55	0	14 54.83	3.0626	- 1 20 54.1	18.991	A G ₁ XV 248
56	0	1 22 21.96	+3.0586	- 1 42 54.8	+18.771	A G ₁ XV 276, A G ₂ I 330
57	7.5	22 55.69	3.0516	- 2 33 11.7	18.754	A G ₂ I 334
58	0	23 33.73	3.0507	- 1 34 15.8	18.734	A G ₁ XV 277
59	8.5	24 05.01	3.0107	- 7 21 56.2	18.718	Gr. II 109 541, A G ₂ II 301
60	8	25 12.47	2.8662	-23 02 21.3	18.682	Cor. G. C. 1428
61	0	1 25 32.52	+3.0530	- 2 18 45.2	+18.671	A G ₂ I 342
62	0	25 54.38	3.0603	- 1 27 17.5	18.660	A G ₁ XV 286
63	8	26 09.76	3.0077	- 7 32 52.7	18.652	A G ₂ II 310
64	6.5	28 40.87	3.0060	- 7 32 11.1	18.570	Cin ₁ 218, A G ₂ II 318. $\mu = 0''.011$ $\mu' = 0''.08$
65	0	29 45.51	3.0020	- 7 53 14.7	18.534	Cin ₁ 222, A G ₂ II 324
66	0.5	1 29 46.23	+2.7792	-29 53 53.0	+18.533	Cor. Z. 1h, 759
67	8.5	35 01.78	2.9975	- 7 57 22.0	18.353	A G ₂ II 340
68	0	43 30.13	2.9114	-15 27 16.3	18.042	Equa. 8
69	0	43 54.85	2.9814	- 8 51 39.4	18.026	A G ₂ II 375
70	0.5	44 01.24	2.8085	-24 15 38.1	18.022	Cor. Z. 1h, 1104
71	8.5	1 44 01.91	+2.8072	-24 22 05.8	+18.021	Cor. G. C. 1770
72	8	44 47.52	2.9594	-10 52 13.1	17.992	Cin. 1910
73	8.5	45 39.43	2.8046	-24 16 03.7	17.950	Cor. G. C. 1793
74	7.5	46 25.25	3.0234	- 4 42 48.0	17.920	A G ₂ I 425
75	8.5	46 34.76	2.9215	-14 09 08.8	17.923	W. Z., Cin. 1910
76	8	1 47 19.36	+2.9639	-10 13 27.5	+17.894	Cin. 1910
77	0	48 30.17	2.9725	- 9 19 58.0	17.847	Equa. 9
78	0	49 45.82	2.9145	14 24 21.1	17.796	W. Z., Cin. 1910
79	0	51 37.75	2.6456	30 18 52.1	17.720	Equa. 10
80	0	52 37.48	3.0006	5 42 55.7	17.679	A G ₁ I 450, A G ₂ II 404
81	8	1 53 04.78	3.0107	- 4 47 23.7	+17.660	A G ₂ I 454
82	0	53 07.65	3.0002	- 6 31 25.0	17.658	Cin ₁ 262, A G ₂ II 406
83	6.5	53 51.35	2.9397	-11 47 04.1	17.628	Cor. G. C. 1939, R ₃ 448
84	0	54 54.89	2.9638	9 37 27.2	17.584	A G ₂ II 418
85	8.5	54 56.39	2.9881	- 7 30 06.3	17.583	Cin ₁ 266, A G ₂ II 420
86	0	1 58 10.04	2.9517	-10 24 05.2	+17.475	Equa. 11
87	0	2 03 01.54	2.9481	-10 19 54.5	17.232	Cin. 1910
88	7	03 24.61	2.9154	-10 30 59.3	17.214	Cor. G. C. 2129, R ₃ 487
89	0.5	04 17.24	2.9717	- 8 19 59.4	17.175	A G ₂ II 460
90	8.5	04 37.01	2.9403	-10 20 33.3	17.160	Cin. 1910

N.	M ₂	R. A. 1885	Dec.	Mag.	Pro.
		H. B. N.	S.		
91	7	2 06 16.41	10 02 36.5	10.00	A G ₁ I 517
92	7	08 58.09	— 9 31 58.7	10.00	A G ₁ I 518
93	8.5	09 07.02	1 12 04.1	10.052	Equa. 10
94	8	12 10.78	—11 42 58.3	10.503	Equa. 10
95	8.5	13 25.52	— 7 04 00.4	10.742	A G ₁ I 519
96	7	2 14 08.20	— 5 18 29.6	10.781	A G ₁ I 520
97	8	15 29.36	21 17 13.1	10.790	Equa. 10
98	10.5	16 53.10	— 6 00 21.3	10.800	Equa. 10
99	10	17 52.95	—21 42 49.1	10.841	W. Z. 580, S. 2901
100	10	20 10.30	—25 20 49.0	10.840	Equa. 10
101	8.5	2 20 35.20	— 21 05 03.2	10.860	Equa. 10
102	8.5	21 15.77	— 1 28 25.1	10.881	A G ₁ XV 517
103	10	22 52.10	— 1 37 19.7	10.880	Equa. 10
104	7	23 45.79	11 04 17.8	10.880	Equa. 10
105	8.5	25 45.41	— 3 38 40.6	10.911	A G ₁ I 521
106	7	2 26 40.63	17 25 35.1	10.911	Equa. 10
107	8	27 03.11	— 1 38 13.5	10.904	A G ₁ XV 513
108	8	32 17.82	11 37 57.4	10.880	Equa. 10
109	8	32 38.47	— 7 04 07.4	10.870	Equa. 10
110	8.5	33 20.19	— 1 50 28.8	11.000	A G ₁ XV 539
111	9	2 33 35.94	— 1 40 35.3	11.211	A G ₁ XV 540
112	9	34 25.12	— 8 40 50.1	15.670	Cin. 326, A G ₂ II 591
113	9.5	35 07.99	— 6 06 32.9	15.641	A G ₂ II 594
114	7	39 07.17	—15 11 23.7	10.400	Bord. 580, W. Z.
115	8	39 28.66	—29 13 51.5	15.300	Cor. G. C. 2901
116	8.5	2 39 49.43	— 0 25 33.2	15.171	A G ₁ XV 568
117	8.5	40 29.26	—15 50 59.5	15.321	W. Z. Cor. 1010
118	9	41 14.08	— 0 48 53.4	15.000	A G ₁ XV 571
119	8	41 39.67	—30 54 00.2	15.267	Cor. G. C. 2945
120	10	42 02.15	— 8 03 19.6	15.246	Equa. 10
121	9	2 42 19.88	— 0 37 36.2	+15.220	A G ₁ XV 576
122	9	45 11.18	— 2 22 30.2	15.005	A G ₂ I 682
123	9	48 03.48	1 40 04.1	14.898	A G ₁ XV 600
124	7.5	48 07.03	—17 01 44.3	14.805	R. 685, Bord. 610, W. Z.
125	9.5	48 23.60	—10 31 56.3	14.870	Equa. 10
126	10	2 49 13.96	—10 22 15.6	14.800	Equa. 10
127	7	49 40.14	— 0 27 22.4	14.804	R. 691, A G ₁ XV 608
128	8.5	52 04.73	—10 46 39.3	14.661	Equa. 10
129	9	54 28.21	—12 58 05.1	14.517	Equa. 10
130	9	57 01.70	—15 13 15.8	14.100	Equa. 10
131	7	2 57 57.10	— 23 12 06.8	14.200	Equa. 10
132	8.5	59 57.66	—26 24 29.6	14.181	Equa. 10
133	9	3 00 01.66	—15 50 20.8	14.177	Equa. 10
134	8.5	00 03.14	—12 33 32.7	14.170	Equa. 10
135	8	02 22.47	—26 10 04.3	14.100	Cor. G. C. 3325
136	7.5	3 03 05.79	— 1 11 40.9	14.080	Equa. 21
137	8.5	03 36.68	— 9 55 42.4	14.081	A G ₂ II 714
138	8.5	04 26.09	— 3 36 57.0	14.000	A G ₂ I 753
139	7	05 46.05	—20 56 05.7	13.818	Cin. 1910
140	9	06 22.97	— 9 15 01.8	13.770	A G ₁ II 710

No.	Age	H. A. S.	Prec.	Decl.	Prec.	Authority.
142	10	3 06 41.38	+2.8815	-11 07 30.4	-13.759	Equa. 22, 23
143	8	07 02.46	2.8867	-10 48 53.2	13.737	Cin. 1910
144	8.5	07 51.98	2.9785	-5 30 24.7	13.684	A G ₂ I 772
145	9.5	11 42.25	2.9386	-7 41 47.0	13.437	A G ₂ II 758
146	9	13 36.44	2.7200	-19 25 57.2	13.313	Cin. 1910
146	8.5	3 14 00.29	+2.9832	-5 06 40.3	-13.287	A G ₂ I 794
147	7	16 27.60	2.5654	-26 39 11.1	13.125	Cor. G. C. 3632, Cape 80 1388
148	7.5	17 19.77	2.7854	-15 49 02.9	13.068	Cin ₁ 394, W. Z.
149	9	17 21.45	2.7085	-19 45 17.7	13.006	Cin ₂ 224
150	9	17 22.13	3.0144	-3 17 33.7	13.005	A G ₂ I 808
151	8.5	3 18 52.15	+3.0226	-2 48 53.0	+12.965	A G ₂ I 811
152	9.5	18 57.40	2.9597	-6 19 13.6	12.959	A G ₂ II 789
153	9.5	19 02.35	2.6626	-21 53 43.0	12.954	Equa. 24
154	8.5	19 54.70	3.0248	-2 40 47.3	12.895	A G ₂ I 816
155	9	21 00.32	2.7377	-18 03 01.9	12.822	Cin. 1910
156	9	3 23 06.73	+2.9108	-8 53 08.5	+12.679	A G ₂ II 809
157	9	23 20.31	2.6593	-21 44 43.2	12.664	Equa. 25
158	9.5	23 25.90	2.4355	-31 34 06.9	12.658	Cor. Z. 3 ^h , 657
159	9	23 40.57	2.4094	-32 35 16.1	12.641	Cor. Z. 3 ^h , 663
160	9	24 28.08	2.9652	-5 53 57.6	12.587	A G ₂ I 842, A G ₂ II 814
161	9.5	3 24 43.44	+2.4362	-31 25 46.4	-12.570	Cor. Z. 3 ^h , 697
162	8.5	27 18.86	2.6973	-19 39 21.9	12.393	Cin. 1910
163	9	28 32.32	2.6650	-21 07 11.1	12.308	Pomérantzef, Taschkent
164	9	28 42.60	2.8105	-13 56 47.6	12.297	Cin. 1910
165	7.5	29 07.38	2.7802	-15 27 37.3	12.267	R ₃ 834, W. Z.
166	9	3 29 14.94	+2.9728	-5 23 38.0	+12.259	A G ₂ I 869
167	9	29 30.70	2.6724	-20 42 21.2	12.241	Cin. 1910
168	8.5	31 00.48	2.5713	-25 13 44.8	12.137	Cin ₁ 416, Cin. 1910
169	7	31 17.12	2.2912	-36 16 14.1	12.118	Cor. G. C. 3950, Cape 80 1486
170	8.5	31 40.79	2.5788	-24 50 50.1	12.090	Cor. G. C. 3959
171	7.5	3 31 41.86	+2.7079	-18 52 45.7	+12.089	Cin. 1910
172	8.5	33 00.55	2.6567	-21 13 36.2	11.997	Cin ₂ 242
173	9	33 58.90	2.7011	-19 04 25.6	11.929	Cin. 1910
174	9	34 07.79	2.6072	-23 24 49.3	11.918	Cin ₁ 422
175	9.5	34 07.81	2.5321	-26 41 35.5	11.918	Equa. 26
176	7	3 34 51.68	+2.3031	-35 31 49.9	+11.867	Cor. G. C. 4027, Cape 80 1520
177	7	34 54.41	3.0455	-1 26 45.7	11.864	A G ₁ XV 787
178	8.5	35 09.86	2.2902	-35 57 36.9	11.845	Cor. Z. 3 ^h , 1028
179	9	35 59.61	2.6171	-22 50 33.1	11.787	Cin. 1910
180	9	36 06.98	2.6082	-23 14 18.0	11.778	Cin. 1910
181	7.5	3 37 45.36	+2.9790	-4 55 28.9	+11.662	A G ₂ I 917
182	7.5	38 14.89	2.6970	-19 01 49.6	11.626	Cin ₁ 428
183	8	38 15.20	2.6260	-22 17 53.6	11.626	Cin. 1910
184	9	39 28.51	2.8058	-13 43 02.3	11.539	Cin. 1910
185	9	40 03.03	2.7041	18 36 22.0	11.499	Cin. 1910
186	9	3 40 32.39	+2.9923	4 11 23.3	+11.463	Equa. 27
187	9	40 50.43	2.6226	22 17 21.1	11.441	Equa. 28
188	10	40 56.12	2.7884	-4 23 28.3	11.434	Equa. 29, 30
189	9.5	43 43.15	2.7413	-16 39 33.7	11.233	Equa. 31
190	8.5	50 10.95	2.5111	20 45 18.7	10.701	Cin. 1910

No.	Mag.	S. A. (h m s)	P. (h m s)	Dec. (° ' ")	Dist. (")	Authority.
191	8.5	3 50 23.25	2.7214	-20 46 55.9	6.540	Cin. 1910
192	8.5	55 22.07	2.8880	-9 36 48.5	6.254	AG ₁ II 1135
193	8.5	4 03 59.03	2.8927	-21 23 39.7	6.222	Cin. 1910
194	9.0	97 37.03	2.7028	-13 01 39.3	7.444	Cin. 1910
195	7.5	08 28.11	2.7300	-31 50 00.7	7.588	Cor. G. C. 4705
196	9.0	4 11 41.44	2.6834	0 58 45.3	+ 0.128	AG ₁ XV 927
197	9.0	18 54.82	3.0522	-0 58 25.9	8.590	AG ₁ XV 960
198	8.5	21 39.84	2.9870	-3 59 35.7	8.344	AG ₁ I 1148
199	7.5	27 01.66	2.9740	-4 35 44.5	7.913	R. 1064 AG ₁ I 1181
200	8.5	27 25.35	2.9837	-5 15 04.9	7.881	Cin. 1910, AG ₁ I 1183
201	9.0	4 27 52.72	+2.9448	5 56 14.4	8.88	AG ₁ I 1187, AG ₁ II 1131
202	9.0	28 17.49	2.8821	-8 48 02.1	7.811	AG ₁ II 1138
203	8.5	31 19.27	2.9958	-3 33 24.9	7.507	Bord. Jahrbuch
204	9.0	32 46.36	3.0063	-3 03 42.4	7.440	AG ₁ I 1219
205	8.5	33 38.18	3.0505	-0 45 07.4	7.379	AG ₁ XV 1037
206	8.5	4 34 09.28	+2.9038	-5 00 19.2	7.337	AG ₁ I 1225
207	9.0	35 02.99	3.0590	-0 38 04.8	7.263	AG ₁ XV 1044
208	8.5	35 54.37	3.0290	-2 08 37.1	7.194	AG ₁ I 1232
209	9.5	37 31.03	2.8786	8 48 51.9	7.062	AG ₁ II 1161
210	9.0	38 16.43	2.9944	-4 56 26.2	7.000	AG ₂ I 1246
211	9.5	4 38 19.00	+3.0173	-2 32 05.5	6.990	Equa. 32, 33
212	6.5	39 16.96	2.8830	-8 41 24.8	6.917	R. 1135, Cape 88 320, AG ₁ II 1207
213	9.0	41 27.40	3.0200	-2 23 53.9	6.780	Cin. 1910
214	9.0	41 41.79	2.9672	-4 47 15.5	6.719	AG ₁ I 1270
215	9.0	43 12.73	2.9269	6 35 19.0	6.594	AG ₁ II 1225
216	9.0	4 46 07.71	+2.9440	-5 47 45.0	+ 6.352	AG ₂ I 1290, AG ₁ II 1247
217	8.5	47 22.25	2.9986	-3 20 25.4	6.240	AG ₂ I 1298
218	8.5	51 48.42	2.9623	-4 56 18.8	5.878	Cin. 537, AG ₂ I 1329
219	8.5	53 07.74	3.0500	-0 42 36.7	5.768	AG ₁ XV 1137
220	9.0	53 44.68	2.9977	-20 20 22.7	5.716	Cin. 1910
221	9.0	4 53 46.30	+3.0644	-0 22 23.1	5.714	AG ₁ XV 1161
222	8.5	54 28.49	2.8940	-7 55 57.3	5.653	AG ₁ II 1291
223	8.5	55 08.20	3.0651	-0 20 36.1	5.590	AG ₁ XV 1165
224	8.5	55 30.57	2.7057	-15 56 53.3	5.568	Bord. 1114, W. Z., Cin. 1910
225	9.0	5 00 45.87	2.2580	-32 13 30.3	5.125	Cor. Z. 11, 2081
226	8.5	5 01 28.05	+2.9932	3 31 07.3	+ 5.066	AG ₂ I 1399
227	9.0	02 20.73	2.8612	-9 16 34.9	4.991	AG ₂ II 1347
228	9.0	02 29.79	2.9948	-3 26 37.6	4.979	AG ₂ I 1409
229	8.5	02 43.72	2.7972	-12 00 24.9	4.950	Cin. 1910
230	9.0	07 47.45	2.7056	-15 44 37.3	4.829	Bord. 1172, W. Z., Cin. 1910
231	9.0	5 08 38.42	+2.8252	-10 45 10.0	4.450	Cin. 1910
232	8.5	16 18.13	2.8005	-11 42 54.7	3.800	Cin. 1910
233	9.0	16 53.00	2.8036	-11 34 41.4	3.730	Equa. 34
234	9.0	20 07.38	2.4737	-24 27 35.1	3.472	Cin. 1910
235	8.5	20 10.02	2.4648	-24 46 51.0	3.468	Cor. G. C. 6243, Cor. Z. 11, 603
236	8.5	5 22 43.84	+2.9494	-5 20 24.1	3.349	AG ₂ I 1509
237	8.5	23 41.78	2.9479	-5 26 30.4	3.163	AG ₂ I 1578
238	8.5	28 40.65	2.5423	-21 49 23.4	2.732	Cin. 1910
239	9.0	32 55.50	2.9151	-6 46 05.7	2.363	AG ₁ II 1577
240	8.5	32 59.31	2.9148	6 46 54.4	2.358	AG ₁ II 1578

No.	M.	R. A.	Pro.	Decl. 1900.	Prec.	Authority
		H. M. S.	S.	" "	" "	
241	7.5	5 42 31.25	+2.6732	—16 41 00.0	1.538	W. Z., Cin. 1910
242	8.5	44 57.73	2.6492	—17 36 45.8	1.318	Cin. 1910
243	6	46 32.26	2.8959	—7 32 41.4	1.077	Gr. 109 993, R ₂ 1436, A G ₂ II 1661
244	6.5	6 02 43.70	2.5380	—21 48 01.3	0.238	Cor. G. C. 7302, R ₂ 1512
245	9	04 38.73	2.9250	—6 18 30.4	0.406	A G ₂ II 1807
246	9	6 06 21.78	+2.5375	—21 49 28.4	0.557	Cin. 1910. μ —0 ^h .68
247	9	11 06.06	2.5535	—21 14 41.5	0.071	Cin. 1910
248	9	12 15.06	2.4057	—26 32 53.6	1.071	Cin. 1910
249	9	13 56.21	2.6294	—18 22 32.5	1.210	Bord. 1527, Cin. 1910
250	8.5	15 13.08	2.3889	—27 08 22.7	1.331	Cor. G. C. 7647
251	8.5	6 21 21.23	2.5112	22 52 17.0	—1.866	Cin. 1910
252	9	37 54.10	2.2425	—32 11 34.7	3.301	Cin. 1910
253	8.5	38 20.93	2.5063	—23 15 09.7	3.349	Cor. G. C. 8280
254	7	40 52.45	2.3051	—27 14 53.9	3.559	Cor. G. C. 8355, Cape 80 3179
255	9	41 59.88	2.4140	—26 36 53.6	3.054	Cin. 1910
256	8.5	6 45 54.50	+2.6765	16 49 31.1	3.900	Bord. 1717, W. Z., Cin. 1910
257	9.5	54 34.34	2.8079	—7 39 39.1	4.730	Equa. 35
258	9.5	55 18.60	2.8983	—7 39 07.2	4.792	Cin ₁ 692, A G ₂ II 2329
259	9	58 14.66	2.3703	—28 29 55.2	5.042	Cor. G. C. 8862
260	7.5	7 18 02.17	2.8632	—9 26 17.5	6.607	A G ₂ II 2618
261	9	7 19 12.07	+2.4192	—27 27 12.0	—6.803	Cin. 1910
262	10	20 21.25	2.4230	—27 21 39.7	6.887	Equa. 36
263	9	36 47.46	2.7553	—14 35 11.4	8.220	W. Z., Cin. 1910
264	8.5	37 40.09	2.6778	—17 58 24.7	8.289	Bord. 2152, Cin ₁ 747, W. Z.
265	8.5	42 22.56	2.4565	—27 03 52.8	8.662	Cin. 1910
266	9	7 53 00.78	+2.7780	—14 03 03.0	—9.502	W. Z., Cin. 1910
267	8	8 13 39.57	2.5511	—25 03 00.7	11.043	Cor. G. C. 11077
268	6.5	19 37.61	2.9885	—4 23 30.8	11.175	A G ₂ I 3215
269	9	19 51.81	2.9853	—4 33 45.5	11.402	A G ₂ I 3217
270	9	28 30.98	2.6231	—22 52 15.0	12.104	Cin ₁ 810
271	7	8 28 56.33	+2.7722	—15 46 06.2	—12.133	R ₂ 2108, Bord. 2570
272	8.5	29 24.94	3.0287	—2 22 28.6	12.166	A G ₂ I 3208
273	8.5	29 34.30	2.8294	—12 54 18.0	12.177	Cin. 1910
274	8.5	29 45.90	3.0020	—3 48 36.0	12.162	A G ₂ I 3303
275	9	30 07.86	3.0041	3 42 21.7	12.219	A G ₂ I 3306
276	9	8 30 08.47	3.0299	—2 18 43.8	—12.217	A G ₁ XV 2630, A G ₂ I 3307
277	8.5	31 01.32	3.0476	—1 21 45.4	12.278	A G ₁ XV 2642
278	8.5	35 46.71	3.0024	—3 52 03.3	12.604	A G ₂ I 3351
279	9	40 56.85	2.4038	—33 14 23.6	12.953	Cor. Z. 8 ^h , 3202
280	9	41 42.38	2.7264	—18 47 25.9	13.003	Cin. 1910
281	8	8 45 13.07	3.0313	—2 21 48.4	—13.236	A G ₂ I 3422
282	9	49 07.72	3.0365	—2 05 50.8	13.491	A G ₁ XV 2734, A G ₂ I 3451
283	7	50 20.34	3.0252	—2 45 54.7	13.509	R ₂ 2286, A G ₂ I 3461
284	9	51 41.46	2.6207	—24 20 40.5	13.950	Cor. Z. 8 ^h , 4126, Cin. 1910
285	7	52 59.06	2.9966	—4 28 19.2	13.738	R ₂ 2304, A G ₂ I 3475
286	8	8 53 03.44	+3.0184	3 11 30.8	13.713	A G ₂ I 3476
287	9	9 02 32.95	2.8177	15 15 40.2	14.330	W. Z., Cin. 1910
288	8	05 41.52	2.8345	—14 29 33.8	14.527	W. Z., Cin. 1910
289	9	08 07.56	2.6713	—23 46 28.8	14.673	Cin ₁ 855
290	8	11 08.56	2.6700	—23 04 38.4	14.851	Cor. G. C. 12001

No.	Age	H. M. S.	W. Z.	W. Z.	W. Z.	W. Z.
205	8	9 12 38.24	1.8507	- 15 53 59.9	14.940	Bord. 2938, W. Z., Cin. 1910
		14 57.40	1.8507	- 11 33 19.1	14.940	Bord. 2938, W. Z., Cin. 1910
		18 42.00	1.8507	- 22 34 19.9	14.940	Bord. 2938, W. Z., Cin. 1910
		18 53.20	1.8507	- 22 30 19.3	14.940	Bord. 2938, W. Z., Cin. 1910
	8	10 32.55	1.8507	- 6 27 21.9	14.940	Bord. 2938, W. Z., Cin. 1910
		9 21 17.24	1.8507	- 11 13 35.8	-15.433	Bord. 2938, W. Z., Cin. 1910
		26 18.38	2.8507	- 14 22 39.2	15.700	Bord. 2938, W. Z., Cin. 1910
		27 14.22	2.8507	- 19 21 57.9	15.700	Bord. 2938, W. Z., Cin. 1910
		28 35.98	2.8507	- 2 06 53.5	15.700	Bord. 2938, W. Z., Cin. 1910
	8	20 53.58	2.8507	- 15 55 51.4	15.700	Bord. 2938, W. Z., Cin. 1910
		9 31 02.34	1.8507	- 20 33 24.1	-15.433	Bord. 2938, W. Z., Cin. 1910
	8	32 23.55	2.0054	- 11 46 04.4	16.035	Bord. 2938, W. Z., Cin. 1910
		36 34.49	1.0054	- 10 02 51.5	16.035	Bord. 2938, W. Z., Cin. 1910
		37 28.34	1.0054	- 3 14 58.9	16.208	Bord. 2938, W. Z., Cin. 1910
		38 36.80	1.0054	- 9 00 18.4	16.350	Bord. 2938, W. Z., Cin. 1910
		9 38 51.30	+2.7030	- 19 54 27.9	16.350	Bord. 2938, W. Z., Cin. 1910
		38 56.26	1.0054	- 9 31 58.6	16.350	Bord. 2938, W. Z., Cin. 1910
	9	39 06.74	1.8514	- 20 41 51.9	16.350	Bord. 2938, W. Z., Cin. 1910
	8	41 39.52	1.8514	- 14 04 20.9	16.508	Bord. 2938, W. Z., Cin. 1910
	8	43 23.12	1.8514	- 17 54 39.4	16.508	Bord. 2938, W. Z., Cin. 1910
		9 44 04.94	1.8514	- 18 50 50.4	16.508	Bord. 2938, W. Z., Cin. 1910
		44 37.92	2.0804	- 6 23 01.3	16.655	Bord. 2938, W. Z., Cin. 1910
		44 54.05	1.8514	- 4 38 34.6	16.655	Bord. 2938, W. Z., Cin. 1910
		45 27.62	2.0020	- 6 13 06.9	16.655	Bord. 2938, W. Z., Cin. 1910
		47 34.62	2.6073	- 32 30 38.0	16.655	Bord. 2938, W. Z., Cin. 1910
		9 48 29.86	+2.7030	- 26 51 53.3	16.655	Bord. 2938, W. Z., Cin. 1910
	7	49 35.30	2.6973	- 27 31 36.4	16.655	Bord. 2938, W. Z., Cin. 1910
	6	49 40.76	1.7030	- 25 27 44.0	16.655	Bord. 2938, W. Z., Cin. 1910
	8.5	51 01.17	2.8242	- 19 12 11.6	16.960	Bord. 2938, W. Z., Cin. 1910
		52 54.30	2.7235	- 26 22 52.6	17.047	Bord. 2938, W. Z., Cin. 1910
		9 53 31.20	+2.6462	- 31 19 00.8	17.047	Bord. 2938, W. Z., Cin. 1910
		54 24.36	2.7240	- 26 35 25.1	17.047	Bord. 2938, W. Z., Cin. 1910
	9.5	54 34.20	2.6495	- 31 18 54.8	17.123	Bord. 2938, W. Z., Cin. 1910
	8.5	56 37.03	2.8341	- 19 11 35.4	17.217	Bord. 2938, W. Z., Cin. 1910
		58 13.73	2.0057	- 6 09 20.7	17.288	Bord. 2938, W. Z., Cin. 1910
	9	9 58 57.64	+2.9879	- 7 10 40.7	-17.320	Bord. 2938, W. Z., Cin. 1910
	10	02 25.12	2.0894	- 7 14 13.9	17.320	Bord. 2938, W. Z., Cin. 1910
	4	05 42.76	2.9384	- 11 51 35.0	17.320	Bord. 2938, W. Z., Cin. 1910
		13 46.38	2.7812	- 25 59 52.9	17.937	Bord. 2938, W. Z., Cin. 1910
		16 19.06	2.8886	- 17 28 50.0	18.035	Bord. 2938, W. Z., Cin. 1910
	9	10 18 31.79	1.8514	- 33 38 03.2	-18.110	Bord. 2938, W. Z., Cin. 1910
		19 11.02	2.6921	- 33 45 50.0	18.143	Bord. 2938, W. Z., Cin. 1910
		20 58.22	2.8874	- 17 55 38.8	18.209	Bord. 2938, W. Z., Cin. 1910
		26 59.05	2.7084	- 34 36 43.7	18.424	Bord. 2938, W. Z., Cin. 1910
		29 09.99	1.8517	- 26 49 59.5	18.498	Bord. 2938, W. Z., Cin. 1910
	10	30 21.64	+3.0215	- 5 44 27.4	-18.538	Bord. 2938, W. Z., Cin. 1910
		32 00.78	2.8160	- 27 08 17.5	18.538	Bord. 2938, W. Z., Cin. 1910
	5.5	32 32.10	2.8201	- 26 53 39.8	18.610	Bord. 2938, W. Z., Cin. 1910
	8	43 05.71	2.7030	- 9 26 49.8	18.934	Bord. 2938, W. Z., Cin. 1910
		43 48.64	2.8726	- 24 37 57.5	18.934	Bord. 2938, W. Z., Cin. 1910

No.	Mag.	R. A. 1900.	Prec.	Decl. 1900.	Prec.	Authority.
		H. M. S.	S.	° ' "	"	
341	8.5	10 46 23.21	+2.9808	-12 17 22.6	-19.026	Cin. 1910
342	9	57 38.50	2.9235	-22 33 03.3	19.315	Cin. 1910
343	8.5	59 47.53	2.9730	-15 42 36.0	19.304	Bord. 3352, W. Z., Cin. 1910
344	8.5	11 03 55.71	3.0172	-9 43 46.6	19.455	A G ₂ II 4198
345	7	04 00.36	2.9621	-18 52 28.2	19.457	R ₃ 2887, Bord. 3365
346	8.5	11 06 31.57	+2.8409	-36 52 05.0	-19.509	Cin. 1910
347	6.5	07 05.38	2.9218	-26 15 47.8	19.521	Cor. G. C. 15324, Cape 80 6209
348	6.5	07 32.65	2.9744	-17 57 19.4	19.520	R ₃ 2900, W. Z.
349	7	07 49.36	3.0009	-13 23 17.1	19.534	Cor. G. C. 15342, R ₃ 2902
350	9	09 52.30	2.9489	-23 06 10.1	19.575	Cin. 1910 $\mu + 0^s.023$
351	8.5	11 11 05.38	+2.8946	-32 09 16.5	-19.597	Cin ₁ 1014
352	8.5	12 08.48	2.9400	-25 35 07.2	19.617	Cor. Z. 11 ^h , 793, Cin. 1910
353	9	12 43.18	2.9412	-25 38 42.5	19.627	Cor. Z. 11 ^h , 828, Cin. 1910
354	6	15 28.93	3.0284	-9 44 49.9	19.675	R ₃ 2934, A G ₂ II 4265
355	6.5	20 51.96	3.0194	-13 12 04.8	19.761	R ₃ 2956
356	7.5	11 21 13.14	+3.0357	-9 19 45.4	-19.766	Cin ₁ 1029, A G ₂ II 4289. $\mu - 0^s.002$ $\mu' - 0''.09$
357	8	22 33.52	3.0243	-12 33 16.0	19.785	Cin. 1910
358	9	25 18.67	3.0228	-13 54 31.8	19.823	Cin. 1910
359	9.5	25 55.85	3.0345	-10 54 55.8	19.831	Cin. 1910
360	9	26 05.14	2.9602	-29 42 46.5	19.833	Cin. 1910
361	9.5	11 26 25.54	+3.0255	-13 35 56.0	-19.837	Equa. 40
362	9.5	27 15.60	3.0410	-9 27.24.3	19.848	Equa. 41
363	8.5	27 28.86	2.9365	-35 46 14.7	19.851	Cor. Z. 11 ^h , 1825
364	9	27 30.60	3.0269	-13 37 59.7	19.851	Cin. 1910
365	4.5	31 36.51	3.0458	-9 14 56.8	19.898	Gr. II 109 3132, A G ₂ II 4329. $[\mu' + 0''.03]$ $\mu - 0^s.005$
366	9	11 34 09.35	+2.9585	-37 11 59.2	-19.925	Cor. Z. 11 ^h , 2317
367	7.5	34 34.49	3.0495	-8 54 42.5	19.929	A G ₂ II 4340
368	8.5	36 46.04	3.0507	-5 29 11.2	19.949	A G ₂ I 4388
369	8.5	37 42.30	3.0504	-5 51 40.8	19.957	A G ₂ I 4394
370	9	38 10.04	3.0452	-12 13 26.9	19.961	Cin. 1910. $\mu - 0^s.007$
371	8	11 38 29.37	+3.0427	-13 27 47.8	-19.964	Cin. 1910
372	9	38 44.54	3.0367	-16 12 20.3	19.966	W. Z., Cin. 1910
373	9	39 38.43	3.0548	-8 36 05.2	19.973	A G ₂ II 4369
374	7	41 19.51	3.0163	-27 24 29.4	19.986	Cor. G. C. 16091
375	8.5	41 53.72	3.0533	-10 23 36.0	19.990	Cin ₁ 1059
376	9.5	11 43 44.70	+3.0551	-10 28 28.0	-20.001	Cin ₁ 1061
377	9	43 59.28	3.0454	-16 18 45.8	20.003	Bord. 3529, W. Z.
378	8.5	45 15.05	3.0258	-28 34 19.5	20.010	Cor. Z. 11 ^h , 3038, Cin. 1910
379	7.1	46 04.38	3.0622	-7 26 05.3	20.015	R ₃ 3076, A G ₂ II 4401
380	9.5	47 18.88	3.0328	-28 20 11.7	20.021	Cor. Z. 11 ^h , 3169
381	8	11 48 20.54	+3.0688	-3 19 38.6	-20.026	A G ₂ I 4436
382	9	49 03.84	3.0463	-22 32 32.0	20.029	Cin. 1910
383	9	51 34.44	3.0708	-2 13 15.5	20.039	A G ₁ XV 3328, A G ₂ I 4453
384	8.5	52 01.63	3.0578	-17 49 34.7	20.040	Bord. 3567, W. Z., Cin. 1910
385	8.5	52 53.32	3.0627	-13 33 17.9	20.043	Cin ₁ 1073
386	9	11 53 00.18	+3.0589	-18 38 26.6	-20.043	Cin. 1910
387	9	53 39.56	3.0613	-17 12 10.3	20.045	Bord. 3574, W. Z., Cin. 1910
388	8	54 27.08	3.0719	-1 21 39.7	20.046	A G ₁ XV 3330
389	9	54 59.66	3.0635	-17 26 38.6	20.047	Bord. 3576, W. Z., Cin. 1910
390	9	55 17.31	3.0726	-0 08 06.2	20.047	A G ₁ XV 3331

No.	Mag.	H. M. S.	Time	Mag.	Time	Notes
367	8.5	11 57 34.54	3.0000	18 14 57.3	19.000	W. Z. Cin. 1910
368	8	59 34.72	3.0000	1 45 19.5	19.000	A G. XV 3467
369	9	12 00 17.58	3.0000	26 07 30.0	19.000	Cin. Z. 11th, 4025
370	9	00 27.24	3.0000	29 27 30.7	20.052	Cin. 1910, 1911
371	9	04 38.62	3.0707	8 15 51.4	19.000	A G. XV 3467
372	8.5	12 11 28.27	3.0000	9 29 51.4	19.027	A G. II 4660
373	8	14 13.94	3.0000	11 48 17.5	19.011	Cin. 1910
374	8	16 21.47	3.0001	11 43 40.0	19.000	Cin. 1910
375	8.5	16 23.35	3.0000	2 56 41.6	19.000	A G. I 4625
376	8	16 39.22	3.0000	18 01 51.4	19.078	W. Z. Cin. 1910
377	9	12 21 30.81	3.0000	7 10 18.0	19.000	A G. II 4661
378	8.5	21 49.80	3.0850	5 30 30.1	19.000	A G. II 4688
379	8	22 51.12	3.0000	22 40 35.2	19.000	Cin. 1910
380	8	22 54.18	3.0000	22 38 22.5	19.000	Cin. 1910, 1911
381	8	23 28.68	3.0000	7 43 39.9	19.047	A G. II 4671
382	8.5	12 25 11.55	3.0000	1 23 21.1	19.011	A G. XV 3467
383	8	26 17.35	3.0000	7 36 19.7	19.000	A G. II 4680
384	8	29 04.77	3.0000	3 10 05.1	19.000	Cin. 1120, A G. I 4625
385	8	33 33.00	3.0000	4 46 29.7	19.000	A G. I 4625, Cin. 1910
386	8	34 28.90	3.0000	26 21 44.7	19.000	Cin. 1910
387	9	12 34 56.07	3.0950	6 30 41.5	19.820	A G. II 4613
388	8	35 54.30	3.0000	11 02 08.1	19.000	Cin. 1118
389	8	36 50.49	3.0000	4 40 16.9	19.700	A G. I 4656
390	8	37 58.73	3.0000	0 00 33.5	19.000	A G. XV 3467
391	8.5	39 16.30	3.1110	9 32 01.2	19.708	A G. II 4667
392	8	12 39 32.15	3.0814	2 09 37.6	19.734	Cin. 1132, A G. I 4667
393	8	39 58.31	3.0000	6 24 25.2	19.748	A G. I 4667, A G. II 4667
394	8.5	40 18.05	3.1061	8 08 11.5	19.740	Cin. 1134, A G. II 4634
395	8.5	41 32.70	3.0707	0 06 59.0	19.724	A G. XV 3467
396	10	42 32.76	3.0844	2 43 05.8	19.707	Equa. 42
397	8	12 43 22.95	3.0000	13 52 14.3	19.694	Cin. 1910
398	7.5	43 48.97	3.0000	8 40 26.1	19.687	A G. II 4644
399	8	43 50.13	3.0770	0 57 30.8	19.687	A G. XV 3467
400	8	44 04.97	3.0963	5 16 41.1	19.682	A G. I 4684
401	8	45 30.78	3.1000	5 54 56.7	19.658	A G. I 4688
402	9	12 45 56.35	3.0000	10 43 22.5	19.000	Cin. 1910
403	8.5	46 10.66	3.0000	9 47 37.8	19.646	R. 1142, A G. II 4635
404	8	46 12.37	3.0000	14 47 38.0	19.646	W. Z., Cin. 1910
405	8.5	46 13.11	3.0000	12 56 17.5	19.646	Cin. 1146, Cin. 1910. $\mu=0^s.020$ $\mu'=0^s.35$
406	8	46 52.51	3.0000	7 58 46.1	19.600	A G. II 4637
407	8	12 47 04.54	3.0000	0 23 05.4	19.631	A G. XV 3476
408	8	47 46.90	3.1046	6 34 56.4	19.618	A G. II 4661
409	9	47 52.57	3.0000	8 41 03.5	19.616	A G. II 4662
410	8	48 29.53	3.0000	9 04 32.1	19.605	A G. II 4667
411	9	48 47.35	3.0000	6 17 12.4	19.600	Equa. 43
412	8.5	12 49 38.71	3.0000	9 53 31.0	19.600	A G. II 4664
413	8.5	49 44.16	3.0000	12 09 57.9	19.582	Equa. 44
414	8	50 35.89	3.0000	13 04 17.1	19.566	Cin. 1910
415	8	51 11.51	3.0000	7 57 15.6	19.514	A G. II 4681
416	8	52 17.09	3.0000	19 12 34.4	19.500	Cin. 1910

No.			Pre.	Decl. 1910	Pre.	Authority.
		H. M. S.				
441	7	12 52 49.06	-3.1514	-14 26 39.7	-19.522	R ₃ 3373, W. Z.
442	8.5	54 35.65	3.0042	-3 53 23.4	19.486	A G ₂ I 4730
443	8	55 09.61	3.1483	-13 21 15.0	19.474	R ₃ 3385
444	8.5	55 35.46	3.1527	-13 59 18.9	19.405	Equa. 45
445	8.5	55 38.77	3.1525	-13 56 59.8	19.464	Equa. 46
446	8.5	12 57 48.21	+3.1033	-5 13 47.4	-19.418	A G ₂ I 4741
447	9	57 52.00	3.1160	-7 23 17.1	19.416	A G ₂ II 4705
448	9	58 21.22	3.1495	-12 50 29.6	19.406	Cin. 1910
449	8	58 22.86	3.1385	-11 02 34.6	19.405	R ₃ 3395, Romb ₂ 2990. $\mu=0^s.006$ $\mu'=0''.09$
450	8.5	59 01.50	3.1093	-6 07 30.6	19.391	A G ₂ I 4753, A G ₂ II 4707
451	8.5	13 00 09.31	-3.1191	-7 36 46.6	-19.365	A G ₂ II 4710
452	9	00 27.88	3.1340	-9 57 56.9	19.358	A G ₂ II 4711
453	9	01 46.11	3.1195	-7 30 10.1	19.328	A G ₂ II 4722
454	9	03 14.15	3.1689	-14 47 33.1	19.294	W. Z., Cin. 1910
455	9	03 34.18	3.1145	-6 31 16.3	19.286	A G ₂ II 4720, Cin. 1910
456	8.5	13 04 23.89	-3.1199	7 14 52.5	-19.266	A G ₂ II 4730
457	7.5	04 24.03	3.1780	-15 58 55.6	19.265	R ₃ 3420, W. Z.
458	4.5	04 46.24	3.1054	-5 00 18.7	19.257	Ber. Jahrbuch
459	9	07 21.41	3.2054	-18 54 51.3	19.192	Bord. 3883, Cin. 1910
460	8	08 49.16	3.1803	-16 01 29.7	19.155	Bord. 3889, W. Z., Cin. 1910
461	10	13 10 07.71	-3.1851	-15 35 47.8	-19.121	Equa. 47
462	9	10 29.05	3.1868	-15 44' 46.1	19.111	Bord. 3896, W. Z., Cin. 1910
463	8	12 46.73	3.2791	-26 18 52.7	19.050	Cor. G. C. 18102, Wanach, Strassbourg.
464	7	12 53.68	3.2931	-27 08 10.5	19.047	Cor. G. C. 18104, Cape 80 7294
465	7.5	13 42.49	3.1635	-12 47 17.4	19.024	Cor. G. C. 18125
466	9	13 14 30.01	+3.2284	-20 02 23.0	-19.002	Bord. 3912, Cin. 1910
467	8	14 58.37	3.3809	-36 11 05.5	18.989	Ber. Jahrbuch
468	8	15 00.01	3.2906	-26 53 03.0	18.988	Cor. G. C. 18152, Cin. 1910
469	9	15 29.68	3.2922	-26 54 48.6	18.974	Cor. Z. 13 ^h , 853
470	9	15 40.97	3.2416	-21 16 54.1	18.969	Cin. 1910
471	7	13 16 50.91	+3.1666	-12 03 19.9	-18.935	R ₃ 3470, Cape 00 1810
472	8	17 27.94	3.1724	-12 39 48.8	18.918	Cin. 1910
473	9	17 45.73	3.1520	-10 10 29.8	18.909	A G ₂ II 4788
474	9	20 21.17	3.1700	-11 57 53.9	18.832	Cin. 1910
475	9	20 30.95	3.2453	-20 33 40.0	18.827	Cin. 1910
476	9.5	13 22 26.05	-3.3305	-29 16 21.1	-18.769	Cor. Z. 13 ^h , 1267
477	9	23 51.13	3.2236	-17 30 45.3	18.725	Cin. 1910
478	9.5	25 15.31	3.2249	-17 23 43.1	18.681	Equa. 48
479	9	25 31.19	3.1434	-8 15 28.0	18.672	A G ₂ II 4818
480	8	26 34.51	3.3897	-32 44 03.2	18.638	Cor. G. C. 18410, Cin. 1910
481	9.5	13 29 26.10	+3.0770	-0 29 14.6	-18.545	Equa. 49, 50
482	9	30 44.72	3.1458	-8 04 09.7	18.501	A G ₂ II 4849
483	7	32 45.50	3.3685	-29 19 48.4	18.432	Cor. G. C. 18546, Cape 80 7472
484	9	33 00.91	3.2371	-17 17 46.1	18.423	Bord. 3993, W. Z., Cin. 1910
485	9	36 47.23	3.4023	-31 01 20.4	18.290	Cor. Z. 13 ^h , 2134
486	8.5	13 37 45.56	+3.4042	-30 56 25.3	-18.256	Cor. G. C. 18641, Cin ₁ 1189, Cin. 1910
487	8.5	43 58.61	3.1127	-6 48 56.3	18.024	A G ₂ II 4925
488	8.5	47 44.19	3.1426	7 14 13.7	17.877	A G ₂ II 4940
489	7	48 23.99	3.1311	-5 41 35.2	17.851	A G ₂ I 4966
490	6.5	48 36.88	3.1581	-28 04 31.7	17.843	Cape 80 7620, Lick Pl. $\mu=0^s.015$ $\mu'=0''.06$

№	№	№	№	№	№
1	0	13 41 33.42	13 41 33.42	13 41 33.42	13 41 33.42
2	0	52 27.25	52 27.25	52 27.25	52 27.25
3	0	58 44.00	58 44.00	58 44.00	58 44.00
4	0	84 24.44	84 24.44	84 24.44	84 24.44
5	0	14 01 08.58	14 01 08.58	14 01 08.58	14 01 08.58
10	14 06 11.35	14 06 11.35	14 06 11.35	14 06 11.35	14 06 11.35
11	0	10 11.82	10 11.82	10 11.82	10 11.82
12	0	10 38.44	10 38.44	10 38.44	10 38.44
13	0	12 22.44	12 22.44	12 22.44	12 22.44
14	0	18 58.48	18 58.48	18 58.48	18 58.48
15	14 17 27.01	14 17 27.01	14 17 27.01	14 17 27.01	14 17 27.01
16	0	24 27.46	24 27.46	24 27.46	24 27.46
17	0	22 11.01	22 11.01	22 11.01	22 11.01
18	0	22 51.44	22 51.44	22 51.44	22 51.44
19	0	35 06.95	35 06.95	35 06.95	35 06.95
20	0	14 27 18.01	14 27 18.01	14 27 18.01	14 27 18.01
21	0	36 49.79	36 49.79	36 49.79	36 49.79
22	0	38 02.22	38 02.22	38 02.22	38 02.22
23	0	38 52.48	38 52.48	38 52.48	38 52.48
24	0	34 48.78	34 48.78	34 48.78	34 48.78
25	0	14 40 20.79	14 40 20.79	14 40 20.79	14 40 20.79
26	0	44 04.07	44 04.07	44 04.07	44 04.07
27	0	53 15.52	53 15.52	53 15.52	53 15.52
28	0	53 17.59	53 17.59	53 17.59	53 17.59
29	0	53 47.49	53 47.49	53 47.49	53 47.49
30	0	14 54 03.84	14 54 03.84	14 54 03.84	14 54 03.84
31	9.5	54 58.08	54 58.08	54 58.08	54 58.08
32	6.5	59 49.14	59 49.14	59 49.14	59 49.14
33	7.5	15 01 04.81	15 01 04.81	15 01 04.81	15 01 04.81
34	0	03 15.80	03 15.80	03 15.80	03 15.80
35	0	15 03 51.37	15 03 51.37	15 03 51.37	15 03 51.37
36	0	04 32.05	04 32.05	04 32.05	04 32.05
37	0	05 53.79	05 53.79	05 53.79	05 53.79
38	0	08 46.69	08 46.69	08 46.69	08 46.69
39	8.5	09 56.99	09 56.99	09 56.99	09 56.99
40	8.5	15 19 12.19	15 19 12.19	15 19 12.19	15 19 12.19
41	0	10 56.66	10 56.66	10 56.66	10 56.66
42	0	14 38.64	14 38.64	14 38.64	14 38.64
43	9.5	16 52.99	16 52.99	16 52.99	16 52.99
44	0	17 06.47	17 06.47	17 06.47	17 06.47
45	0	15 24 36.79	15 24 36.79	15 24 36.79	15 24 36.79
46	0	32 00.47	32 00.47	32 00.47	32 00.47
47	9.5	32 29.64	32 29.64	32 29.64	32 29.64
48	0	42 47.66	42 47.66	42 47.66	42 47.66
49	0	44 14.39	44 14.39	44 14.39	44 14.39
50	0	16 06 23.96	16 06 23.96	16 06 23.96	16 06 23.96
51	8.5	11 16.95	11 16.95	11 16.95	11 16.95
52	8.5	25 14.39	25 14.39	25 14.39	25 14.39
53	8.5	44 13.44	44 13.44	44 13.44	44 13.44
54	0	44 54.19	44 54.19	44 54.19	44 54.19
55	0	1 00 40.00	1 00 40.00	1 00 40.00	1 00 40.00
56	0	4 59 37.4	4 59 37.4	4 59 37.4	4 59 37.4
57	0	33 17 40.3	33 17 40.3	33 17 40.3	33 17 40.3
58	0	8 20 27.5	8 20 27.5	8 20 27.5	8 20 27.5
59	0	8 20 24.4	8 20 24.4	8 20 24.4	8 20 24.4
60	0	8 38 51.3	8 38 51.3	8 38 51.3	8 38 51.3
61	0	4 41 13.2	4 41 13.2	4 41 13.2	4 41 13.2
62	0	2 50 30.7	2 50 30.7	2 50 30.7	2 50 30.7
63	0	7 04 24.4	7 04 24.4	7 04 24.4	7 04 24.4
64	0	16 31 43.7	16 31 43.7	16 31 43.7	16 31 43.7
65	0	2 43 36.0	2 43 36.0	2 43 36.0	2 43 36.0
66	0	5 32 13.3	5 32 13.3	5 32 13.3	5 32 13.3
67	0	9 03 10.0	9 03 10.0	9 03 10.0	9 03 10.0
68	0	26 17 27.5	26 17 27.5	26 17 27.5	26 17 27.5
69	0	25 59 57.6	25 59 57.6	25 59 57.6	25 59 57.6
70	0	14 51 02.5	14 51 02.5	14 51 02.5	14 51 02.5
71	0	17 53 19.5	17 53 19.5	17 53 19.5	17 53 19.5
72	0	8 42 06.2	8 42 06.2	8 42 06.2	8 42 06.2
73	0	11 11 34.7	11 11 34.7	11 11 34.7	11 11 34.7
74	0	8 30 24.5	8 30 24.5	8 30 24.5	8 30 24.5
75	0	14 54 19.5	14 54 19.5	14 54 19.5	14 54 19.5
76	0	18 31 34.0	18 31 34.0	18 31 34.0	18 31 34.0
77	0	16 02 53.6	16 02 53.6	16 02 53.6	16 02 53.6
78	0	18 55 55.7	18 55 55.7	18 55 55.7	18 55 55.7
79	0	9 32 51.3	9 32 51.3	9 32 51.3	9 32 51.3
80	0	18 54 21.8	18 54 21.8	18 54 21.8	18 54 21.8
81	0	13 44 18.1	13 44 18.1	13 44 18.1	13 44 18.1
82	0	7 19 49.5	7 19 49.5	7 19 49.5	7 19 49.5
83	0	32 31 24.7	32 31 24.7	32 31 24.7	32 31 24.7
84	0	19 49 13.0	19 49 13.0	19 49 13.0	19 49 13.0
85	0	18 00 59.6	18 00 59.6	18 00 59.6	18 00 59.6
86	0	10 52 55.4	10 52 55.4	10 52 55.4	10 52 55.4
87	0	11 05 32.9	11 05 32.9	11 05 32.9	11 05 32.9
88	0	13 50 07.6	13 50 07.6	13 50 07.6	13 50 07.6
89	0	11 04 32.1	11 04 32.1	11 04 32.1	11 04 32.1
90	0	14 19 16.1	14 19 16.1	14 19 16.1	14 19 16.1
91	0	23 38 26.5	23 38 26.5	23 38 26.5	23 38 26.5
92	0	12 49 43.8	12 49 43.8	12 49 43.8	12 49 43.8
93	0	2 13 28.6	2 13 28.6	2 13 28.6	2 13 28.6
94	0	6 56 53.0	6 56 53.0	6 56 53.0	6 56 53.0
95	0	2 28 51.3	2 28 51.3	2 28 51.3	2 28 51.3
96	0	16 24 04.9	16 24 04.9	16 24 04.9	16 24 04.9
97	0	16 12 35.2	16 12 35.2	16 12 35.2	16 12 35.2
98	0	13 26 32.7	13 26 32.7	13 26 32.7	13 26 32.7
99	0	29 06 31.0	29 06 31.0	29 06 31.0	29 06 31.0
100	0	35 50 52.2	35 50 52.2	35 50 52.2	35 50 52.2
101	0	22 40 25.5	22 40 25.5	22 40 25.5	22 40 25.5
102	0	12 54 57.0	12 54 57.0	12 54 57.0	12 54 57.0
103	0	0 05 51.3	0 05 51.3	0 05 51.3	0 05 51.3
104	0	22 01 59.6	22 01 59.6	22 01 59.6	22 01 59.6
105	0	1 00 40.00	1 00 40.00	1 00 40.00	1 00 40.00
106	0	4 59 37.4	4 59 37.4	4 59 37.4	4 59 37.4
107	0	33 17 40.3	33 17 40.3	33 17 40.3	33 17 40.3
108	0	8 20 27.5	8 20 27.5	8 20 27.5	8 20 27.5
109	0	8 20 24.4	8 20 24.4	8 20 24.4	8 20 24.4
110	0	8 38 51.3	8 38 51.3	8 38 51.3	8 38 51.3
111	0	4 41 13.2	4 41 13.2	4 41 13.2	4 41 13.2
112	0	2 50 30.7	2 50 30.7	2 50 30.7	2 50 30.7
113	0	7 04 24.4	7 04 24.4	7 04 24.4	7 04 24.4
114	0	16 31 43.7	16 31 43.7	16 31 43.7	16 31 43.7
115	0	2 43 36.0	2 43 36.0	2 43 36.0	2 43 36.0
116	0	5 32 13.3	5 32 13.3	5 32 13.3	5 32 13.3
117	0	9 03 10.0	9 03 10.0	9 03 10.0	9 03 10.0
118	0	26 17 27.5	26 17 27.5	26 17 27.5	26 17 27.5
119	0	25 59 57.6	25 59 57.6	25 59 57.6	25 59 57.6
120	0	14 51 02.5	14 51 02.5	14 51 02.5	14 51 02.5
121	0	17 53 19.5	17 53 19.5	17 53 19.5	17 53 19.5
122	0	8 42 06.2	8 42 06.2	8 42 06.2	8 42 06.2
123	0	11 11 34.7	11 11 34.7	11 11 34.7	11 11 34.7
124	0	8 30 24.5	8 30 24.5	8 30 24.5	8 30 24.5
125	0	14 54 19.5	14 54 19.5	14 54 19.5	14 54 19.5
126	0	18 31 34.0	18 31 34.0	18 31 34.0	18 31 34.0
127	0	16 02 53.6	16 02 53.6	16 02 53.6	16 02 53.6
128	0	18 55 55.7	18 55 55.7	18 55 55.7	18 55 55.7
129	0	9 32 51.3	9 32 51.3	9 32 51.3	9 32 51.3
130	0	18 54 21.8	18 54 21.8	18 54 21.8	18 54 21.8
131	0	13 44 18.1	13 44 18.1	13 44 18.1	13 44 18.1
132	0	7 19 49.5	7 19 49.5	7 19 49.5	7 19 49.5
133	0	32 31 24.7	32 31 24.7	32 31 24.7	32 31 24.7
134	0	19 49 13.0	19 49 13.0	19 49 13.0	19 49 13.0
135	0	18 00 59.6	18 00 59.6	18 00 59.6	18 00 59.6
136	0	10 52 55.4	10 52 55.4	10 52 55.4	10 52 55.4
137	0	11 05 32.9	11 05 32.9	11 05 32.9	11 05 32.9
138	0	13 50 07.6	13 50 07.6	13 50 07.6	13 50 07.6
139	0	11 04 32.1	11 04 32.1	11 04 32.1	11 04 32.1
140	0	14 19 16.1	14 19 16.1	14 19 16.1	14 19 16.1
141	0	23 38 26.5	23 38 26.5	23 38 26.5	23 38 26.5
142	0	12 49 43.8	12 49 43.8	12 49 43.8	12 49 43.8
143	0	2 13 28.6	2 13 28.6	2 13 28.6	2 13 28.6
144	0	6 56 53.0	6 56 53.0	6 56 53.0	6 56 53.0
145	0	2 28 51.3	2 28 51.3	2 28 51.3	2 28 51.3
146	0	16 24 04.9	16 24 04.9	16 24 04.9	16 24 04.9
147	0	16 12 35.2	16 12 35.2	16 12 35.2	16 12 35.2
148	0	13 26 32.7	13 26 32.7	13 26 32.7	13 26 32.7
149	0	29 06 31.0	29 06 31.0	29 06 31.0	29 06 31.0
150	0	35 50 52.2	35 50 52.2	35 50 52.2	35 50 52.2
151	0	22 40 25.5	22 40 25.5	22 40 25.5	22 40 25.5
152	0	12 54 57.0	12 54 57.0	12 54 57.0	12 54 57.0
153	0	0 05 51.3	0 05 51.3	0 05 51.3	0 05 51.3
154	0	22 01 59.6	22 01 59.6	22 01 59.6	22 01 59.6
155	0	1 00 40.00	1 00 40.00	1 00 40.00	1 00 40.00
156	0	4 59 37.4	4 59 37.4	4 59 37.4	4 59 37.4
157	0	33 17 40.3	33 17 40.3	33 17 40.3	33 17 40.3
158	0	8 20 27.5	8 20 27.5	8 20 27.5	8 20 27.5
159	0	8 20 24.4	8 20 24.4	8 20 24.4	8 20 24.4
160	0	8 38 51.3	8 38 51.3	8 38 51.3	8 38 51.3
161	0	4 41 13.2	4 41 13.2	4 41 13.2	4 41 13.2
162	0	2 50 30.7	2 50 30.7	2 50 30.7	2 50 30.7
163	0	7 04 24.4	7 04 24.4	7 04 24.4	7 04 24.4
164	0	16 31 43.7	16 31 43.7	16 31 43.7	16 31 43.7

		R. A. 1900.	Prec.	Decl. 1900.	Prec.	Authority.
		H M S	S.	" "	" "	
541	9	16 52 14.32	+3.8100	-29 57 54.3	-5.843	Cin. 1910
542	9.5	55 55.59	3.7045	-26 11 04.7	5.534	Cin ₁ 1382
543	9	57 07.06	3.8155	-29 59 38.4	5.434	Cin. 1910
544	9	57 39.60	3.6070	-22 31 59.1	5.388	Pomérantzef, Taschkent
545	9	57 46.73	3.6652	-24 42 12.2	5.378	Cin. 1910
546	9	16 58 24.29	+3.7048	-26 07 34.2	5.325	Cin. 1910
547	6.5	17 00 41.39	3.7136	-26 22 39.1	5.132	Cape 00 2336, Lick Pi.
548	8.5	04 40.06	3.7149	-26 19 32.0	4.704	Cor. G. C. 23246
549	8	05 24.10	3.7227	-26 34 40.0	4.732	Cor. G. C. 23263, Lick Pi.
550	9	05 36.27	3.8034	-29 20 55.2	4.715	Cape 00 2344
551	10	17 05 42.05	+4.0527	-37 01 16.3	4.707	Cor. Z. 17 ^h , 270
552	8	07 37.40	3.3640	-12 36 33.7	4.543	Guédéonof, Taschkent.
553	8.5	09 05.51	3.7618	-27 51 14.3	4.418	Cor. G. C. 23350, Lick Pi.
554	7	12 00.60	3.6539	-23 57 45.0	4.168	Cin ₂ 1514, Cape 00 2363. $\mu + 0^s.005$ $\mu' - 0''.08$
555	8.5	14 23.89	3.5168	-18 43 14.7	3.904	Cin. 1910
556	6.5	17 14 41.99	+3.5299	-19 13 40.0	-3.937	Cin ₁ 1405, Romb ₂ 4002. $\mu - 0^s.010$ $\mu' - 0''.14$
557	8.5	17 35.43	3.4965	-17 52 30.1	3.689	Bord. 4984, W. Z.
558	9	17 50.94	3.7174	-26 07 43.2	3.667	Cin. 1910
559	8.5	22 47.41	3.6425	23 21 29.1	3.241	Cor. G. C. 23671
560	8.5	32 11.23	3.1412	-2 57 09.8	2.427	A G ₂ I 5924
561	9	17 32 39.41	+3.6632	-23 58 59.2	2.386	Pomérantzef, Taschkent, Cin. 1910
562	3.5	43 02.97	4.0778	-37 00 40.7	1.482	Cape 85 1252, Cape 90 2168
563	7.5	43 39.68	3.5574	-19 58 25.3	1.428	R ₃ 4639, Cape 00 2425
564	9	44 46.41	3.9906	-34 31 50.5	1.331	Cor. Special Cat. 41
565	9	45 58.38	3.5692	-20 24 36.8	1.226	Cin. 1910
566	7.5	17 57 12.21	+3.8403	-29 51 44.4	0.245	Cor. G. C. 24536
567	8	57 41.10	3.2528	-7 40 07.8	0.203	A G ₂ II 6075
568	9	57 52.88	3.0834	-0 27 23.0	0.186	A G ₁ XV 4478
569	8	58 25.11	3.2905	-9 15 16.0	0.138	A G ₂ II 6078
570	7.5	59 02.88	3.7787	-27 50 19.8	-0.083	Cor. G. C. 24585
571	8.5	18 01 17.24	+3.6994	-25 06 55.2	0.112	Cin. 1910
572	8	02 10.05	3.7169	-25 43 39.0	0.190	Cor. G. C. 24662
573	8	03 50.73	3.8935	-31 33 00.0	0.336	Cor. G. C. 24712
574	7	07 06.50	3.9074	31 59 31.8	0.622	Cor. G. C. 24789
575	9	17 50.90	3.6892	-24 49 16.9	1.500	Cin. 1910
576	7.5	18 19 05.01	+3.8515	-30 18 25.4	+1.668	Cor. G. C. 25098
577	8	19 39.73	3.6419	-23 08 09.2	1.718	Cor. G. C. 25111
578	8	24 08.81	3.7102	-25 36 57.6	2.109	Cor. G. C. 25249
579	7	24 24.67	3.6457	-23 19 01.5	2.132	Cape 00 2530
580	8	24 39.08	3.9148	-32 21 20.6	2.153	Cor. G. C. 25265
581	6	18 27 24.12	+3.9376	-33 05 25.9	2.391	Cape 80 10101, Lick Pi.
582	8	35 39.10	3.9128	-32 27 41.2	3.107	Cin ₁ 1467, Cin. 1910
583	9.5	47 05.75	3.8441	-30 30 55.5	4.092	Cor. Z. 18 ^h , 2533
584	8.5	47 53.39	3.2751	-8 47 59.6	4.160	A G ₂ II 6418
585	5	49 04.40	3.6418	-22 47 46.3	4.261	Cape 00 2601. $\mu + 0^s.005$ $\mu' - 0''.01$
586	9	18 52 59.04	+4.0506	-36 55 18.9	4.595	Cor. Z. 18 ^h , 2785
587	9.5	19 01 01.28	3.9113	-6 13 36.7	5.276	A G ₂ II 6562
588	9	08 41.00	3.9706	-2 54 21.6	5.020	A G ₂ I 6529
589	8.5	13 33.10	3.9117	-1 45 35.0	6.325	A G ₁ XV 4837, A G ₂ I 6577
590	9	36 32.75	3.9117	10 19 31.5	8.200	Cin. 1910

N ^o	M _g	R A 1900	P	W. Z.	P	Apparatus
500	8	19 37 24.25	3.1800	14 28 04.4	13.800	W. Z., Cin. 1910
501	8	48 54.07	3.1800	12 37 17.9	13.774	Cin. 1910
502	8	58 35.04	3.1800	— 9 28 37.8	13.618	A G ₁ II 1900
503	8	58 58.09	3.1800	—22 11 43.5	9.048	Geometrisch, Paschke
505	8.5	20 20 10.80	3.1800	—25 10 20.4	11.400	Cin. 1910, 280
506	8.5	20 24 25.37	3.1800	— 3 13 06.0	11.800	Cin. 1910, 280, A G ₁ I 7606
507	8.5	30 31.46	3.1800	—32 33 16.0	10.44	Cin. 1910, 280, 960, Cin. 1910
508	8.5	33 40.20	3.1800	5 16 51.7	10.400	R. 1904, A G ₁ I 1900
509	8.5	39 49.02	3.1800	— 0 04 06.5	12.877	Cin. 1910, 280, 960
509	8	42 00.49	3.1800	— 8 48 57.4	13.000	A G ₁ II 1910
600	8	20 48 16.72	3.1800	—12 56 47.4	13.430	R. 1906, 280, Cin. 1910
602	8	58 24.15	3.1800	—11 34 00.7	14.080	Cin. 1910
603	8.5	21 09 32.00	3.1800	— 1 14 47.6	14.780	A G ₁ XV 1900
604	8	22 04.41	3.1800	— 2 09 49.7	15.477	A G ₁ I 7400
605	8	23 54.51	3.1800	— 2 00 02.6	15.378	A G ₁ I 7502
606	8.5	21 27 40.83	3.1800	— 1 19 29.5	15.784	Bord VI, Cin. 1910
607	8.5	28 02.18	3.1800	— 1 33 07.3	15.803	Equa. 60
608	8.5	34 15.67	3.1800	—23 39 03.9	16.130	Pemantzer, Paschke
609	8	42 01.81	3.1800	—13 35 03.4	16.800	Cin. 1910
610	8.5	43 38.94	3.1800	— 4 03 24.6	16.607	A G ₁ I 7603
611	8.5	21 54 57.37	3.3400	—21 17 55.1	17.140	Cin. 1787
612	7.5	55 41.77	3.3400	13 30 15.9	17.174	Cin. 1875, Cin. 1910, $\mu = 0.003$, $\mu' = 0.11$
613	6.5	56 43.30	3.3400	—32 36 59.3	17.200	Cor. G. C. 30137, Cape 80 11582
614	8.5	58 53.50	3.3400	—20 53 46.7	17.317	Cin. 1910
615	8	22 00 24.26	3.3400	—19 25 03.2	17.383	Bord 6534
616	7.5	22 00 59.31	3.3400	—17 01 56.5	+17.409	Cape 00 3068
617	6.5	07 19.49	3.3400	—26 49 15.4	17.678	Cor. G. C. 30359, Cape 80 11652
618	8	09 32.19	3.3400	—17 38 26.8	17.768	Bord. 6570, W. Z., Cin. 1910
619	8.5	11 56.79	3.3400	—24 12 36.3	17.864	Cor. G. C. 30434
620	8	14 06.34	3.3400	—25 08 27.7	17.949	Cin. 1910
621	8.5	22 15 20.64	3.1200	— 4 39 48.4	+17.997	A G ₂ I 7774
622	10	15 42.15	3.2400	—16 15 11.0	18.011	Equa. 61, 62
623	8	17 07.37	3.3457	—25 11 50.3	18.066	Cin. 1910
624	8	18 23.67	3.1100	— 4 21 04.0	18.114	A G ₁ I 7702
625	8	19 01.29	3.1177	— 4 30 39.6	18.137	A G ₁ I 7706
626	8	22 21 04.42	3.1040	— 3 17 41.8	+18.213	A G ₂ I 7801
627	8.5	23 44.66	3.1277	—25 04 30.0	18.309	Cor. Z. 22h, 668
628	8	27 04.95	3.2100	—14 40 58.8	18.427	W. Z., Cin. 1910
629	8	28 24.04	3.1742	—11 02 08.6	18.472	Cin. 1910
630	8	28 31.46	3.1672	—13 28 40.7	18.476	Equa. 63
631	8	22 31 26.78	3.1147	—26 34 18.1	+18.574	Cor. G. C. 30822
632	8.5	32 34.66	3.1140	— 4 44 38.1	18.611	Cin. 1917, A G ₁ I 7851, $\mu = 0.006$, $\mu' = 0.11$
633	8.5	37 42.72	3.1150	— 5 13 05.1	18.773	A G ₂ I 7876
634	10	39 06.65	3.0798	— 0 53 04.3	18.816	Equa. 64
635	8	40 30.96	3.2631	—22 43 56.5	18.858	Cin. 1910
636	6.5	22 40 58.06	3.1000	—11 41 29.9	18.872	Cape 00 3155
637	8.5	41 29.15	3.2400	—20 25 50.7	18.887	Cin. 1864
638	8	43 30.09	3.1687	—12 21 23.0	18.945	Cin. 1910
639	8	44 05.04	3.2505	—22 54 59.3	18.962	Cin. 1910
640	8	44 52.16	3.1187	— 6 05 43.1	18.984	A G ₂ II 8132

	Alt.	H. M. S.	Prec.	Decl. 1900	Prec.	Authority.
641	8.5	22 45 03.08	+3.1189	— 6 07 57.2	+18.989	A G ₂ II 8134
642	8.5	46 00.76	3.0874	— 1 58 40.0	19.010	A G ₂ I 7908
643	9	46 06.38	3.0889	— 2 10 58.0	19.010	A G ₂ I 7909
644	8.5	46 15.35	3.2390	—21 28 14.6	19.023	Cin ₁ 1873, Cin. 1910
645	8	50 09.82	3.1165	— 6 13 22.7	19.128	A G ₂ II 8150
646	8.5	22 50 19.66	+3.1157	— 6 07 06.9	+19.133	A G ₂ II 8160
647	10	52 16.33	3.0830	— 1 33 07.4	19.183	Equa. 65
648	9	54 17.62	3.1621	—13 17 43.4	19.233	Cin. 1910
649	6.5	57 21.05	3.1177	— 7 06 39.2	19.308	Cape 00 3204
650	6.5	23 01 33.80	3.3252	—36 49 41.3	19.404	Cor. G. C. 31393
651	9	23 06 33.75	+3.0847	— 2 13 06.6	+19.509	A G ₂ I 7995
652	9	06 56.63	3.0871	— 2 41 27.9	19.517	A G ₂ I 7997
653	8.5	07 04.19	3.0866	— 2 35 23.7	19.520	A G ₂ I 7999
654	7.5	07 54.65	3.2394	—28 57 25.3	19.536	Cor. G. C. 31504
655	7	08 57.78	3.0891	— 3 10 44.1	19.557	A G ₂ I 8004
656	8	23 09 09.51	+3.2357	—29 00 09.2	+19.561	Cor. G. C. 31519, Lick Pi.
657	8.5	12 44.19	3.0970	— 5 04 05.3	19.627	A G ₂ I 8018
658	9	12 59.63	3.0730	— 0 03 06.8	19.632	A G ₁ XV 5803
659	8	13 11.43	3.1107	— 7 58 59.3	19.635	A G ₂ II 8278
660	9.5	15 24.16	3.1141	— 9 05 51.2	19.674	A G ₂ II 8285
661	9.5	23 15 50.91	+3.1134	— 9 02 39.5	+19.681	Cin ₁ 1931, A G ₂ II 8290
662	7	16 12.28	3.0959	— 5 13 11.4	19.687	A G ₂ I 8036
663	7	23 50.30	3.1091	— 9 48 58.3	19.803	A G ₂ II 8327
664	10	28 49.96	3.0834	— 3 23 14.0	19.867	Equa. 66
665	9	29 59.92	3.0738	— 0 21 42.8	19.881	A G ₁ XV 5853
666	8	23 30 15.80	+3.1261	—17 08 08.5	+19.883	R ₃ 6299, W. Z.
667	8	31 36.44	3.0829	— 3 30 54.2	19.898	A G ₂ I 8097
668	5.5	32 28.40	3.1115	—13 36 53.4	19.908	Cape 80 12219, R ₃ 6307
669	7	32 51.08	3.1170	—15 38 44.3	19.912	R ₃ 6309, Lick Pi, W. Z. $\mu +0^s.003 \mu' -0''.10$
670	9	34 06.27	3.1072	—12 51 50.4	19.924	Cin ₁ 1958
671	9	23 35 19.61	+3.1072	—13 30 09.1	+19.936	Cin. 1910
672	8.5	36 01.25	3.0900	— 7 01 54.0	19.942	A G ₂ II 8370
673	9.5	37 59.41	3.0776	— 2 11 41.2	19.960	A G ₂ I 8122
674	9	38 01.15	3.1017	—12 46 09.3	19.960	Cin. 1910. $\mu -0^s.010 \mu' -0''.20$
675	7.5	43 00.15	3.1034	—17 15 12.5	19.997	R ₃ 6355, W. Z.
676	9	23 49 03.17	+3.0729	— 0 08 41.5	+20.027	A G ₁ XV 5907
677	9	53 44.17	3.0758	— 4 50 40.0	20.045	A G ₂ I 8185

Micrometrical Measures of Nebulae.

No.	Name	Position			Size, Position and Distance			Remarks
		h	m	s	h	m	s	
1	1007.8	08.8	45.15	+ 6 24.6	0 05	37.96	- 6 43 38.8	Pretty ft.
	08.8						+6 23.5	
2	1006.9	07.8	38.67	- 4 19.7	0 04	21.90	-12 35 29.8	Pretty ft. Sm. Stel.
	07.8				+1	38.74	-4 19.6	Swift's 100 to 111
3	1006.2	07.8	21.47	- 4 46.5	0 09	03.00	- 7 46 11.6	Very ft.
	07.8						+1 46.6	
4	1006.0	07.8	35.25	- 8 48.9	0 09	03.00	- 7 46 11.6	Pretty br.
	07.8						-8 49	
5	1007.8	08.8	43.47	-10 04.3	0 12	41.66	- 6 46 38.1	Very ft.
	08.8				-1	33.41	-10 04.8	
6	1007.8	08.8	47.38	+ 2 11.3	0 16	06.06	- 3 32 07.8	Ft.
	08.8				-2	17.26	- 2 11.8	Safford's 14 p too great, 14' too great.
7	1008.1	09.6	34.86	+ 0 38.3	0 23	22.08	- 3 03 38.2	Very ft.
	09.6				-1	33.84	+ 0 39.9	
8	1008.1	07.8	56.67	- 6 16.2	0 22	48.38	- 2 14 06.4	Very ft.
	07.8				-0	30.72	- 6 16.6	
9	1008.1	07.8	38.77	- 5 53.5	0 22	48.38	- 2 14 06.4	Very ft.
	07.8				-0	38.73	- 5 52.7	
10	1007.0	08.8	27.43	-14 16.4	0 22	58.19	-33 33 33.0	Very br. lrg. elong.
	08.8				-2	27.27	-14 17.3	
11	1008.8	07.8	20.47	- 3 35.0	0 27	00.42	- 8 43 48.5	Ft. lrg. diffuse
	07.8				-0	20.56	- 3 34.4	
12	1007.8	08.8	55.47	+17 16.0	0 28	03.37	-10 1 32.3	Pretty ft.
	08.8				-0	33.47	- 16 59.2	
13	1007.0	08.8	34.17	+10 40.6	0 27	39.10	-28 32 03.7	Ft. lrg. diffuse [round]
	08.8				-1	30.38	+10 44.4	Swift has neb. p. 90 p. ft. p. sm.
14	1009.0	07.9	30.07	- 2 28.3	0 29	14.71	- 3 17 32.4	Ft. sm. which precedes p. 90
	07.9				-0	30.03	- 2 28.4	Probably N. G. C. 148, the position of
15	1008.0	07.8	20.47	- 3 19.3	0 28	03.36	-11 16 49.5	Pretty ft.
	07.8				-1	20.19	- 3 17.1	Swift's 100 too small
16	1008.0			+ 3 15.0	0 31	17.82	- 6 06 13.1	Pretty br. lrg. diffuse.
					-1	36.00	- 3 13.0	
17	1007.8	08.8	47.62	- 6 59.4	0 29	33.79	- 8 50 56.4	
	08.8				-0	07.86	- 6 00.7	

No.	N. G. C. No.	Epoch.	Observed		+	Star, Place, and Difference, 1900		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ	
			M. S.	" "		H. M. S.	" "	
7	163	1905.9 07.9	+0 40.90 41.24	-0 25.2 26.1	15	0 30 15.46 +0 41.07	-10 39 56.5 -0 25.6	Very ft. Swift's α 14 ^s too great.
8	175	1905.9 07.9	-0 20.33 20.75	-1 22.7 19.0	18	0 32 42.44 -0 20.54	-20 27 51.6 -1 21.3	Ft.
9	19	1905.9 07.8 08.8	+1 22.39 22.42 22.27	+4 11.1 14.1 12.0	17	0 32 33.03 +1 22.37	-9 37 25.1 +4 12.5	Pretty br. A fainter neb. fol. s.
20	Nova	1907.8 08.8	+0 29.97 30.02	+3 39.3 37.1	19	0 33 30.98 +0 30.00	-14 46 58.8 +3 38.2	Very ft.
21	Nova	1907.9 08.8	-0 21.41 21.36	+4 30.6 27.7	20	0 34 50.04 -0 21.38	-15 16 45.0 +4 29.1	Very ft.
22	210	1905.9 07.8	+0 31.37 31.40	+0 41.1 39.1	21	0 35 02.16 +0 31.38	-14 26 01.8 +0 40.1	Very br.
23	217	1905.9 07.9	+0 40.52 40.25	-3 44.2 42.2	22	0 35 59.54 +0 40.38	-10 30 33.1 -3 43.2	Ft.
24	227	1907.9 08.8	+1 26.47 26.42	-0 32.0 34.5	23	0 36 03.98 +1 26.44	-2 03 59.6 -0 33.1	Ft. stellar nucleus.
25	237	1907.9 08.8	+0 59.40 59.88	-1 26.6 26.2	24	0 37 21.43 +0 59.04	-0 38 56.0 -1 26.3	Very ft. Swift's α 15 ^s too great.
26	239	1907.9 08.8	+1 36.52 36.25	+5 51.8 51.8	25	0 37 55.09 +1 36.38	-4 24 16.1 +5 52.0	Very ft.
27	244	1907.9 08.8	+1 04.82 05.05	-12 38.5 38.0	26	0 39 42.05 +1 04.95	-15 56 01.5 -12 38.1	Ft.
28	245	1905.9 06.9	-1 48.74 48.57	-7 11.0 16.2	31	0 42 47.78 -1 48.65	-2 08 58.8 -7 13.8	Ft.
29	253	1907.9 08.8	+0 14.07 14.12	+5 23.8 23.1	29	0 42 25.38 +0 14.10	-25 55 39.0 +5 23.5	Br. lrg., elong.
30		1907.9 08.8	-0 00.65 00.00	+6 20.2 12.0	30	0 42 40.03 -0 00.33	-25 56 28.6 +6 16.1	
30	255	1907.9 08.8	+1 33.22 33.75	-0 58.9 52.1	27	0 41 12.31 +1 33.49	-11 59 52.8 -0 55.3	Ft. diffuse.
31	259	1907.9 08.8	+1 20.77 20.52	-14 58.8 55.8	28	0 41 37.36 +1 20.66	-3 04 20.1 -14 57.1	Ft.
31		1907.9	-1 34.00	+15 08.9	32	0 44 31.52 -1 34.01	-3 34 28.9 +15 08.7	
32	Nova	1905.9 06.9 07.9 08.8	+0 10.98 10.70 10.90 10.82	+2 16.3 14.2 (03.3) 18.0	31	0 42 47.78 +0 10.85	-2 08 58.8 +2 16.2	Very ft.
33	268	1907.9 08.8	-0 13.22 13.15	-4 07.4 05.7	33	0 45 18.27 -0 13.18	-5 40 19.2 -4 06.5	Very ft. diffuse.
34	270	1907.9 08.8	-1 04.78 04.17	+9 28.8 26.0	35	0 46 34.25 -1 04.48	-9 21 45.6 +9 59.4	Pretty ft. sm.

N. G. C.	Epoch.	Observed		+	S. P. ...		Description and Notes.
		Δ	Δ		δ	δ	
		M. S.			H. M. S.		
53	442	1907.7	— 2 29.0	53	1 09 12.75	— 1 30 32.8	Pretty ft.
		08.9	28.6		— 0 10.22	— 2 27.2	Swift's a 11 ^s too small.
54	448	1906.0	+ 0 09.8	54	1 11 31.08	2 00 29.9	Pretty br.
		06.9	07.4		— 1 21.40	+ 0 08.4	Swift's a 6 ^s too great.
55	467	1905.0	+ 2 22.82	55	1 14 54.83	— 1 20 54.1	Very ft.
		06.9	00.0		— 2 22.01	— 3 01.1	
56	541	1906.0	— 1 43.04	56	1 22 21.99	— 1 42 54.8	Ft. sm.
		06.9	08.2		— 1 43.47	— 11 09.9	
		07.9	00.4				
57	547	1906.0	— 1 27.59	57	1 22 21.96	1 42 54.8	Ft. Double neb. fol. observed.
		06.9	8 56.1		— 1 27.67	— 8 58.0	
		07.9	56.5				
58	560	1907.9	— 0 35.70	57	1 22 55.00	— 2 33 11.7	Very ft.
		08.9	11.7		— 0 35.68	— 7 14.7	
59	562	1907.9	— 0 13.00	57	1 22 55.00	2 33 11.7	Very ft.
		08.9	18.8		— 0 12.86	+ 9 19.2	
60	570	1907.9	— 0 18.55	58	1 23 33.73	1 34 33.8	Very ft.
		08.9	10.1		+ 0 18.57	+ 6 18.3	
61	577	1907.9	+ 0 02.55	61	1 25 32.52	— 2 18 45.1	Ft.
		08.9	54.5		+ 0 02.75	— 11 56.8	
62	578	1907.8	— 0 30.20	60	1 25 12.47	— 23 02 21.3	Pretty br. lrg. diffuse.
		08.9	42.6		+ 0 30.08	— 8 38.9	
63	581	1906.0	+ 2 14.86	59	1 24 05.01	— 7 21 56.2	Br.
			— 1 07.2		+ 2 14.87	— 1 06.8	
64	585	1907.8	— 0 10.45	63	1 26 00.70	— 7 32 52.7	
		08.8	57.2		+ 0 10.33	+ 9 56.0	
65	588	1907.9	+ 0 41.48	62	1 25 54.38	— 1 27 17.5	Very ft.
		08.9	24.0		+ 0 41.40	+ 0 27.1	
66	590	1906.0	— 0 44.84	64	1 28 40.87	— 7 32 11.1	Pretty br.
		07.8	34.1		— 0 40.74	— 0 33.5	
67	613	1907.0	— 0 05.25	66	1 29 46.23	— 0 53 53.0	Br. pretty lrg.
		08.1	38.8		— 0 05.00	— 2 00.9	
68	615	1906.0	+ 0 20.14	65	1 29 45.51	— 7 53 14.7	Pretty br.
		07.8	04.5		+ 0 20.20	+ 2 04.5	
69	636	1905.9	— 0 54.95	67	1 35 01.78	7 57 22.0	Br. sm.
		06.9	56.9		— 0 54.98	— 3 55.4	
70	685	1906.0	+ 0 43.56	68	1 43 30.13	— 15 27 16.3	Very ft.
		07.8	09.0		+ 0 43.57	— 1 08.4	
71	681	1906.0	— 0 43.56	69	1 44 27.85	— 0 52 13.1	Pretty ft.
		07.8	17.8		— 0 43.57	— 3 15.7	
72	686	1907.9	— 0 13.58	70	1 44 30.55	— 1 05 38.1	
		08.0	05.5		+ 0 14.21	— 2 05.0	
73		1907.0	— 0 13.57	71	1 44 01.01	— 24 22 05.8	
		08.1	01.1		+ 0 13.57	— 4 21.3	

No.	Year	Lat.	Long.	Alt.	Mag.	Dist.	Remarks
69	1906.0	08.9	33.5	69	— 8 51 30.4	Very ft. sm. stellar.	
70	1906.0	07.9	33.5	70	— 8 51 30.4	Very ft. sm. stellar.	
71	1906.0	07.9	33.5	71	— 8 51 30.4	Very ft. sm. stellar.	
72	1907.0	08.50	34.85	72	— 8 51 30.4	Very ft.	
73	1907.0	08.50	34.85	73	— 8 51 30.4	Very ft.	
74	1907.0	08.50	34.85	74	— 8 51 30.4	Very ft.	
75	1907.0	08.50	34.85	75	— 8 51 30.4	Very br.	
76	1907.0	08.50	34.85	76	— 8 51 30.4	Very br.	
77	1907.0	08.50	34.85	77	— 8 51 30.4	Very br.	
78	1907.0	08.50	34.85	78	— 8 51 30.4	Very br.	
79	1907.0	08.50	34.85	79	— 8 51 30.4	Very br.	
80	1907.0	08.50	34.85	80	— 8 51 30.4	Very br.	
81	1906.0	07.8	33.5	81	— 8 51 30.4	Pretty ft.	
82	1907.0	08.0	34.83	82	— 8 51 30.4	Pretty br. sm.	
83	1906.0	07.8	33.5	83	— 8 51 30.4	Pretty ft.	
84	1907.0	08.0	34.83	84	— 8 51 30.4	Pretty ft.	
85	1907.0	08.0	34.83	85	— 8 51 30.4	Pretty ft.	
86	1907.0	08.0	34.83	86	— 8 51 30.4	Pretty ft.	
87	1907.0	08.0	34.83	87	— 8 51 30.4	Pretty ft.	
88	1907.0	08.0	34.83	88	— 8 51 30.4	Pretty ft.	
89	1907.0	08.0	34.83	89	— 8 51 30.4	Pretty ft.	
90	1907.0	08.0	34.83	90	— 8 51 30.4	Pretty ft.	
91	1907.0	08.0	34.83	91	— 8 51 30.4	Pretty ft.	
92	1907.0	08.0	34.83	92	— 8 51 30.4	Pretty ft.	
93	1907.0	08.0	34.83	93	— 8 51 30.4	Pretty ft.	
94	1907.0	08.0	34.83	94	— 8 51 30.4	Pretty ft.	
95	1907.0	08.0	34.83	95	— 8 51 30.4	Pretty ft.	
96	1907.0	08.0	34.83	96	— 8 51 30.4	Pretty ft.	
97	1907.0	08.0	34.83	97	— 8 51 30.4	Pretty ft.	
98	1907.0	08.0	34.83	98	— 8 51 30.4	Pretty ft.	
99	1907.0	08.0	34.83	99	— 8 51 30.4	Pretty ft.	
100	1907.0	08.0	34.83	100	— 8 51 30.4	Pretty ft.	

	N. G. C. No.	Epoch	Observed			Star Place, and Difference, 1900		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ	
			M. S.	" "		H. M. S.	" "	
835		1907.9 08.9	+1 05.47 05.70	- 5 34.1 32.0	88	2 03 24.61 +1 05.59	-10 30 59.3 - 5 32.8	Ft.
Apfen		1907.9	+1 32.30	+10 45.5	87	2 03 01.54 +1 32.29	-10 19 54.5 +10 45.9	Pretty ft. lrg. Salford's a 4 ^s too small
		1907.9 08.9	-0 03.74 03.65	+11 15.8 22.6	90	2 04 37.91 -0 03.70	-10 20 33.3 +11 19.2	
838		1907.9 08.9	+1 19.42 19.50	- 6 12.9 07.3	88	2 03 24.61 +1 19.48	-10 30 59.3 - 6 09.7	Very ft. sm.
839		1908.9 09.9	+1 23.98 24.10	- 8 25.8 28.5	88	2 03 24.61 +1 24.07	-10 30 59.3 - 8 26.8	Very ft.
842		1907.9 08.9	+0 36.42 36.34	+ 5 53.9 55.2	89	2 04 17.24 +0 36.38	- 8 19 59.4 +5 54.7	Very ft.
850		1907.9 08.9	-0 08.20 07.85	+ 5 08.8 13.5	91	2 06 16.41 -0 08.03	- 2 02 36.5 +5 11.1	Ft.
853		1906.9 07.9	-2 11.60 11.40	-14 35.7 36.2	92	2 08 58.06 -2 11.50	- 9 31 58.7 -14 36.6	Pretty ft. sm.
856		1907.9 08.9	-0 35.40 35.32	+ 0 52.7 59.3	93	2 09 07.62 -0 35.30	- 1 12 04.1 +0 55.8	Ft. diffuse. Swift's a 14 ^s too great.
863		1907.9 08.9	+0 20.12 20.37	- 1 50.5 55.6	93	2 09 07.62 +0 20.25	- 1 12 04.1 - 1 57.4	Very ft.
873		1907.9 08.9	-0 30.72 30.47	- 5 54.3 48.8	94	2 12 10.78 -0 30.60	-11 42 58.3 - 5 51.7	Ft.
881		1906.0 07.9	+0 21.34 21.92	- 2 05.8 00.0	95	2 13 25.52 +0 21.63	- 7 04 00.4 - 2 02.8	Ft.
883		1906.0 07.9	-0 00.93 01.04	+ 3 20.2 20.3	90	2 14 08.26 -0 00.98	- 7 18 29.6 +3 20.2	Pretty ft.
895		1907.9 08.9	-0 16.58 16.35	+10 35.9 39.6	98	2 16 53.10 -0 16.48	- 6 09 21.3 +10 37.7	Ft. lrg.
899		1908.0 08.9	+1 46.30 46.42	+ 0 23.1 16.8	97	2 15 29.36 +1 46.38	-21 17 13.1 +0 20.5	Pretty br.
907		1908.0 08.9	-2 09.92 09.32	- 5 02.3 01.4	101	2 20 35.20 -2 09.64	-21 05 03.2 - 5 02.6	Ft.
908		1907.0 08.0	+0 34.55 34.66	+ 1 27.1 23.8	99	2 17 52.95 +0 34.60	-21 42 49.1 +1 25.6	Pretty br. lrg. diffuse.
922		1908.0 08.0	+0 16.82 16.77	+14 45.6 42.4	100	2 20 16.30 +0 16.77	-25 29 49.0 +14 44.0	Very ft.
936		1906.0	-0 20.14	+ 0 57.8	103	2 22 52.19 -0 20.14	- 1 37 19.7 + 0 57.7	Very br.
		1907.9	+0 15.51	- 7 53.4	102	2 22 16.77 +0 15.95	- 1 28 25.1 - 7 53.4	
945		1908.0 08.9	+0 01.68 01.46	+ 5 03.8 07.2	104	2 23 43.79 +0 01.54	-11 04 17.8 +5 05.5	Very ft.
955		1908.0 08.9	+ 35.05 35.28	+ 5 04.7 04.2	107	2 27 03.11 -1 35.18	- 1 38 13.5 +5 01.9	Pretty br. sm.

No.	S. & I. No.	Date	Position		No.	Position		Remarks and Notes
			Δ	δ		Δ	δ	
111	008	1908.0	M. S.	—0 22.2	105	H. M. S.	—2 28 20.0	Pretty br. pretty lrg.
		08.0	—0 22.2	42.7		—2 28 20.0	—13 58.4	
112	009	1907.0	+0 10.17	—12 10.1	100	2 40 20.0	—7 33 31.1	Ft. sm.
		08.0	40.08	13 57.2		—0 13.7	—13 58.4	
113	0015	1907.0	—12.28	—1 10.0	100	2 33 20.19	—1 40 30.0	Very ft. sm.
		08.0	11.30	20.2		—0 13.7	—13 58.4	
114		1907.0	—0 20.50	2 32.3	111	2 33 20.19	—1 40 30.0	
		08.0	20.45	2.08		—0 20.46	—13 58.4	
115	1042	1907.0	—2 31.0	—2 31.0	100	2 33 20.19	—1 40 30.0	Pretty br. lrg.
		07.0	—2 31.0	—2 31.0		+0 20.46	—13 58.4	
116	1043	1907.8	+0 10.17	+6 48.7	112	2 34 20.19	—8 40 30.0	Pretty br. lrg.
		08.0	00.85	48.7		+0 10.00	+6 48.7	
117	1044	1908.0	+0 18.12	—14 20.3	101	2 35 20.19	—6 06 32.0	Pretty ft. sm.
		08.0	18.60	21.0		+0 18.34	+14 20.2	
118	1045	1908.0	—1 28.32	—2 30.3	108	2 35 20.19	—11 37 57.4	Pretty br. stellar
		08.0	—1 28.32	28.5		—0 21.31	—4 26.6	
119	1052	1906.0	—1 28.32	—0 13.7	103	2 34 20.19	—8 40 30.0	Pretty br.
		07.0	45.42	13.8		—0 20.46	—13 58.4	
120	1058	1906.0	—1 28.32	—0 13.7	110	2 35 20.19	—6 06 32.0	Very br.
		08.0	13.87	44.1		—0 21.31	—4 26.6	
121	1070	1908.0	—0 21.83	—1 38 38.5	114	2 39 07.17	—13 11 23.7	Pretty ft. Swift's α 9s too great.
		08.0	—0 21.83	38.3		—0 22.07	—13 11 23.7	
122	1071	1908.0	—0 02.78	—11 48.8	115	2 39 28.60	—20 13 31.3	Pretty br.
		08.0	03.48	47.1		—0 03.12	—11 47.5	
123	1081	1908.0	—0 06.26	—0 40.5	117	2 40 29.26	—13 30 30.3	Very ft. Swift's α 6 too small.
		08.0	—0 06.26	35.7		—0 06.26	—13 30 30.3	
124	1082	1906.1	+0 57.38	—2 20.0	110	2 42 02.13	—8 03 19.0	Very br.
		08.0	57.43	—2 20.0		—0 57.40	+3 20.7	
125	1087	1907.0	—0 13.63	—6 18.3	118	2 41 14.08	—6 48 32.4	Pretty br. lrg.
		08.0	—0 13.63	17.9		+0 03.13	—6 18.2	
126	1090	1908.0	—0 32.15	—2 20.8	121	2 42 19.88	—0 37 36.2	Ft. lrg. diffuse
		08.0	—0 32.15	20.8		—0 37.36	—2 30.0	
127	1097	1908.0	—0 32.15	+12 19.2	119	2 41 14.08	—6 48 32.4	Very br.
		08.0	—0 32.15	19.3		+0 03.13	+12 21.4	
128	1104	1908.0	—0 32.15	—4 44.8	121	2 42 19.88	—0 37 36.2	Very ft. sm.
		08.0	—0 32.15	38.2		—0 01.22	—4 44.8	
129	1121	1908.0	—0 21.83	—12 35.7	120	2 45 11.18	—2 22 30.2	Ft. sm. stellar. Swift's α 13s too great.
		08.0	—0 21.83	35.7		—0 23.68	+13 38.7	
130	1125	1908.0	—1 06.37	—1 58.7	124	2 48 07.03	—17 04 44.3	Very ft.
		08.0	—1 06.37	58.7		—0 06.48	—17 04 44.3	

No.	N. G. C. No.	Epoch.	Observed			Sta. Place, and Difference.		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ	
			M. S.	" "		H. M. S.	" "	
131	1132	1906.0 08.0	-0 10.50 16.65	-1 03.8 03.1	123	2 48 03.48 -0 16.62	-1 40 04.1 -1 03.6	Ft.
131	1140	1908.0 08.9	+1 19.05 19.27	+5 51.4 54.3	125	2 48 23.00 +1 16.19	-10 31 56.3 +5 53.3	Pretty br.
131		1908.9	+0 28.90	-3 50.6	126	2 49 13.00 +0 28.01	-10 22 15.6 -3 50.4	
132	1143	1908.0 09.0	+0 23.30 22.72	-7 45.5 42.9	127	2 49 40.14 +0 23.03	-0 27 22.4 -7 44.0	Ft.
133	1144	1908.0 09.0	+0 25.40 25.32	-8 00.5 01.0	127	2 49 40.14 +0 25.38	0 27 22.4 -8 00.6	Ft. A little brighter than 132.
134	1154	1909.0 09.9	+1 12.08 13.02	+0 47.1 45.8	128	2 52 04.73 +1 13.01	-10 46 39.3 +0 47.1	Very ft.
135	1155	1909.0 09.9	+1 18.47 18.62	+1 27.9 30.8	128	2 52 04.73 +1 18.56	10 46 39.3 +1 30.0	Very ft.
136	1162	1908.0 08.9	-0 18.80 18.63	+10 11.5 15.4	129	2 54 28.21 -0 18.72	-12 58 05.1 +10 13.2	Pretty ft.
137	1172	1907.0 08.0	-0 07.82 07.52	-0 39.1 37.8	130	2 57 01.70 -0 07.67	-15 13 15.8 -0 38.5	Pretty ft.
138	1187	1908.1 08.9	+0 13.50 13.08	-3 27.6 37.7	131	2 57 57.10 +0 13.75	-23 12 06.8 -3 32.6	Pretty ft. diffuse.
139	1199	1908.0 08.9	-1 03.68 03.60	-9 56.9 57.7	133	3 00 01.00 -1 03.03	-15 50 20.8 -9 57.8	Pretty br.
140	1200	1908.1 08.9	-0 55.52 55.45	+10 31.8 37.1	134	3 00 03.14 -0 55.50	12 33 32.7 +10 33.3	Pretty ft.
141	1201	1909.1	-0 09.92	-3 00.1	132	2 59 57.00 -0 09.92	-26 24 29.6 -3 09.2	Pretty br.
141		1908.0	-0 34.50	-17 35.0	135	3 00 22.47 -0 34.46	-26 10 04.3 -17 35.3	
142	1208	1907.0 08.0 08.0	-2 16.05 15.35 15.37	-0 03.4 02.9 —	137	3 03 30.08 -2 15.60	-9 55 42.4 0 04.2	Pretty br.
143	1209	1908.0 09.0	+1 21.25 21.25	9 34.2 36.7	133	3 00 01.06 +1 21.28	15 50 20.8 -9 34.8	Br. sm.
144	1211	1906.0 08.0	1 18.87 18.93	+0 49.5 48.8	136	3 03 05.79 -1 18.91	-1 11 40.9 +0 48.7	Pretty br.
145	1222	1908.0 09.0	0 31.03 31.18	+16 40.2 41.6	138	3 04 26.00 0 31.14	3 36 57.0 +16 40.6	Very ft. sm.
146	1232	1908.0 09.0	0 31.08 30.4	— 37.7 36.7	139	3 05 46.05 -0 30.76	-20 56 05.7 -1 37.5	Pretty br. lrg. diffuse.
147	1238	1906.1 08.1	0 36.64 36.75	0 00.1 01.3	141	3 06 41.38 -0 36.70	-11 07 30.4 0 03.5	Very ft. Swift's a 98 too great.
148	1241	1908.1 09.0	+0 00.19 00.15	3 00.7 2 58.4	140	3 06 22.07 +0 00.27	0 15 01.8 3 00.5	Ft. pretty lrg.

No.	Star.	Epoch.	M. S.		H. M. S.		Remarks.
101	1005.1	1005.1	23.17	30.2	3 17 22.13	—19 25 57.2	Ft.
102	1005.1	1005.1	01.20	30.2	3 17 22.13	—19 25 57.2	Pretty ft.
103	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Empty ft.
104	1005.1	1005.1	00.30	30.2	3 17 22.13	—19 25 57.2	Very ft.
105	1005.1	1005.1	00.1	30.2	3 17 22.13	—19 25 57.2	Pretty br. sm.
106	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Ft. sm. stellar.
107	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Ft.
108	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty br. lrg.
109	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty ft.
110	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Ft.
111	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Ft.
112	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty ft.
113	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Ft.
114	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty ft.
115	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty br.
116	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty br.
117	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty ft. pretty lrg.
118	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty br.
119	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty br.
120	1005.1	1005.1	00.0	30.2	3 17 22.13	—19 25 57.2	Pretty br.

N.	N. G. C. No.	Epoch.	Observed		Star, Place, and Difference.		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$	α	δ	
			M. S.	" "	H. M. S.	" "	
169	1354	1908.1	-1 16.02	- 5 56.9	3 29 07.38	-18 27 37.3	Very ft.
		09.0	16.28	59.5	-1 16.15	58.9	
170	1355	1908.1	-0 49.10	+ 3 27.5	3 29 14.74	- 5 23 38.0	Pretty ft.
		09.1	48.76	21.7	-0 48.94	+3 24.2	
171	1357	1907.0	-0 06.40	- 3 16.8	3 28 42.60	-13 50 47.6	Pretty ft.
		08.1	06.48	18.7	-0 06.43	-3 17.8	
172	1358	1908.1	-0 32.62	- 1 58.3	3 29 14.94	- 5 23 38.0	Pretty ft. sm.
		09.1	32.60	55.7	-0 32.61	-1 57.3	
173	1359	1908.1	+1 59.90	-10 28.5	3 27 18.86	-19 39 21.9	Very ft. lrg.
		09.1	2 00.25	23.0	+2 00.13	10 24.6	
174	1362	1908.1	-0 05.27	+ 5 10.1	3 29 30.70	-20 42 21.2	Ft.
		09.1	04.78	13.6	-0 05.04	+5 14.8	
175	1365	1908.0	-1 29.42	-12 14.4	3 31 17.12	-36 16 14.1	Very br.
		09.0	29.17	18.7	-1 29.28	-12 17.3	
176	1371	1906.1	-0 16.32	- 2 19.8	3 31 00.48	25 13 44.8	Pretty br.
		08.0	16.50	12.6	-0 16.36	-2 16.5	
		08.1	16.32	16.0			
		10.0	16.30	16.9			
177	1374	1908.1	-3 26.30	- 1 33.7	3 34 51.68	-35 31 49.9	Pretty ft.
		09.0	25.80	44.2	-3 26.06	-1 41.8	
		09.1	25.88	41.6			
178	1377	1908.1	-0 47.34	- 0 24.0	3 33 00.55	-21 13 36.2	Very ft.
		09.0	47.00	23.1	-0 47.18	-0 23.9	
179	1380	1908.1	-2 15.72	+13 28.5	3 34 51.68	-35 31 49.9	Br.
		09.0	15.93	29.0	-2 15.92	+13 27.5	
180	1383	1908.1	+ 1 26.10	+12 42.8	3 31 41.86	-18 52 46.7	Pretty ft.
		09.0	26.35	42.9	-1 26.19	+12 43.6	
181	1385	1908.1	+ 1 29.68	+ 0 55.5	3 31 40.79	-24 50 50.1	Pretty br.
		09.1	30.10	1 01.1	+1 29.91	+0 59.2	
182	1393	1908.1	+2 26.22	+ 7 20.6	3 31 41.86	-18 52 46.7	Ft.
		09.0	25.98	28.0	+2 26.10	+7 28.7	
183	1395	1906.1	+0 01.17	+ 3 31.6	3 34 07.79	-23 24 49.3	Br.
		08.1	01.25	31.8	-0 01.20	+3 31.7	
184	1398	1908.1	+0 31.00	+ 1 47.9	3 34 07.81	26 41 35.5	Pretty br.
		09.1	31.23	43.2	+0 31.12	+1 45.8	
185	1399	1908.1	- 0 12.20	-14 45.5	3 34 51.68	35 31 49.9	Very br.
		09.1	11.93	44.6	-0 12.02	-14 45.1	
186	1401	1908.1	- 1 06.72	-11 13.0	3 36 06.98	-23 14 18.0	Very ft.
		09.1	06.38	15.8	-1 06.60	+11 14.7	
187	1406	1908.1	-1 02.00	+ 3 35.9	3 33 58.90	-19 04 25.6	Pretty br.
		09.0	02.10	35.5	-1 02.05	+3 36.4	
188	1404	1908.1	+0 11.08	-23 20.1	3 34 51.68	-35 31 49.9	Br.
					+0 11.17	-23 20.0	

No.	Date	Time	M. S.		No.	M. S.		Remarks
			Alt.	Dist.		Alt.	Dist.	
188	1908.1	00.0	00.00	00.0	188	3 35	00.80	Very br.
189	1908.1	00.1	42.88	+10 00.6	189	3 33	58.00	Very br.
190	1908.1	00.2	00.00	00.2	190	3 34	00.00	Very br.
191	1908.1	00.3	00.00	00.3	191	3 35	00.00	Very br.
192	1908.1	00.4	00.00	00.4	192	3 36	00.00	Very br.
193	1908.1	00.5	00.00	00.5	193	3 37	00.00	Very br.
194	1908.1	00.6	00.00	00.6	194	3 38	00.00	Very br.
195	1908.1	00.7	00.00	00.7	195	3 39	00.00	Very br.
196	1908.1	00.8	00.00	00.8	196	3 40	00.00	Very br.
197	1908.1	00.9	00.00	00.9	197	3 41	00.00	Very br.
198	1908.1	01.0	00.00	01.0	198	3 42	00.00	Very br.
199	1908.1	01.1	00.00	01.1	199	3 43	00.00	Very br.
200	1908.1	01.2	00.00	01.2	200	3 44	00.00	Very br.
201	1908.1	01.3	00.00	01.3	201	3 45	00.00	Very br.
202	1908.1	01.4	00.00	01.4	202	3 46	00.00	Very br.
203	1908.1	01.5	00.00	01.5	203	3 47	00.00	Very br.
204	1908.1	01.6	00.00	01.6	204	3 48	00.00	Very br.
205	1908.1	01.7	00.00	01.7	205	3 49	00.00	Very br.
206	1908.1	01.8	00.00	01.8	206	3 50	00.00	Very br.
207	1908.1	01.9	00.00	01.9	207	3 51	00.00	Very br.
208	1908.1	02.0	00.00	02.0	208	3 52	00.00	Very br.
209	1908.1	02.1	00.00	02.1	209	3 53	00.00	Very br.
210	1908.1	02.2	00.00	02.2	210	3 54	00.00	Very br.
211	1908.1	02.3	00.00	02.3	211	3 55	00.00	Very br.
212	1908.1	02.4	00.00	02.4	212	3 56	00.00	Very br.
213	1908.1	02.5	00.00	02.5	213	3 57	00.00	Very br.
214	1908.1	02.6	00.00	02.6	214	3 58	00.00	Very br.
215	1908.1	02.7	00.00	02.7	215	3 59	00.00	Very br.
216	1908.1	02.8	00.00	02.8	216	4 00	00.00	Very br.
217	1908.1	02.9	00.00	02.9	217	4 01	00.00	Very br.
218	1908.1	03.0	00.00	03.0	218	4 02	00.00	Very br.
219	1908.1	03.1	00.00	03.1	219	4 03	00.00	Very br.
220	1908.1	03.2	00.00	03.2	220	4 04	00.00	Very br.
221	1908.1	03.3	00.00	03.3	221	4 05	00.00	Very br.
222	1908.1	03.4	00.00	03.4	222	4 06	00.00	Very br.
223	1908.1	03.5	00.00	03.5	223	4 07	00.00	Very br.
224	1908.1	03.6	00.00	03.6	224	4 08	00.00	Very br.
225	1908.1	03.7	00.00	03.7	225	4 09	00.00	Very br.
226	1908.1	03.8	00.00	03.8	226	4 10	00.00	Very br.
227	1908.1	03.9	00.00	03.9	227	4 11	00.00	Very br.
228	1908.1	04.0	00.00	04.0	228	4 12	00.00	Very br.
229	1908.1	04.1	00.00	04.1	229	4 13	00.00	Very br.
230	1908.1	04.2	00.00	04.2	230	4 14	00.00	Very br.
231	1908.1	04.3	00.00	04.3	231	4 15	00.00	Very br.
232	1908.1	04.4	00.00	04.4	232	4 16	00.00	Very br.
233	1908.1	04.5	00.00	04.5	233	4 17	00.00	Very br.
234	1908.1	04.6	00.00	04.6	234	4 18	00.00	Very br.
235	1908.1	04.7	00.00	04.7	235	4 19	00.00	Very br.
236	1908.1	04.8	00.00	04.8	236	4 20	00.00	Very br.
237	1908.1	04.9	00.00	04.9	237	4 21	00.00	Very br.
238	1908.1	05.0	00.00	05.0	238	4 22	00.00	Very br.
239	1908.1	05.1	00.00	05.1	239	4 23	00.00	Very br.
240	1908.1	05.2	00.00	05.2	240	4 24	00.00	Very br.
241	1908.1	05.3	00.00	05.3	241	4 25	00.00	Very br.
242	1908.1	05.4	00.00	05.4	242	4 26	00.00	Very br.
243	1908.1	05.5	00.00	05.5	243	4 27	00.00	Very br.
244	1908.1	05.6	00.00	05.6	244	4 28	00.00	Very br.
245	1908.1	05.7	00.00	05.7	245	4 29	00.00	Very br.
246	1908.1	05.8	00.00	05.8	246	4 30	00.00	Very br.
247	1908.1	05.9	00.00	05.9	247	4 31	00.00	Very br.
248	1908.1	06.0	00.00	06.0	248	4 32	00.00	Very br.
249	1908.1	06.1	00.00	06.1	249	4 33	00.00	Very br.
250	1908.1	06.2	00.00	06.2	250	4 34	00.00	Very br.
251	1908.1	06.3	00.00	06.3	251	4 35	00.00	Very br.
252	1908.1	06.4	00.00	06.4	252	4 36	00.00	Very br.
253	1908.1	06.5	00.00	06.5	253	4 37	00.00	Very br.
254	1908.1	06.6	00.00	06.6	254	4 38	00.00	Very br.
255	1908.1	06.7	00.00	06.7	255	4 39	00.00	Very br.
256	1908.1	06.8	00.00	06.8	256	4 40	00.00	Very br.
257	1908.1	06.9	00.00	06.9	257	4 41	00.00	Very br.
258	1908.1	07.0	00.00	07.0	258	4 42	00.00	Very br.
259	1908.1	07.1	00.00	07.1	259	4 43	00.00	Very br.
260	1908.1	07.2	00.00	07.2	260	4 44	00.00	Very br.
261	1908.1	07.3	00.00	07.3	261	4 45	00.00	Very br.
262	1908.1	07.4	00.00	07.4	262	4 46	00.00	Very br.
263	1908.1	07.5	00.00	07.5	263	4 47	00.00	Very br.
264	1908.1	07.6	00.00	07.6	264	4 48	00.00	Very br.
265	1908.1	07.7	00.00	07.7	265	4 49	00.00	Very br.
266	1908.1	07.8	00.00	07.8	266	4 50	00.00	Very br.
267	1908.1	07.9	00.00	07.9	267	4 51	00.00	Very br.
268	1908.1	08.0	00.00	08.0	268	4 52	00.00	Very br.
269	1908.1	08.1	00.00	08.1	269	4 53	00.00	Very br.
270	1908.1	08.2	00.00	08.2	270	4 54	00.00	Very br.
271	1908.1	08.3	00.00	08.3	271	4 55	00.00	Very br.
272	1908.1	08.4	00.00	08.4	272	4 56	00.00	Very br.
273	1908.1	08.5	00.00	08.5	273	4 57	00.00	Very br.
274	1908.1	08.6	00.00	08.6	274	4 58	00.00	Very br.
275	1908.1	08.7	00.00	08.7	275	4 59	00.00	Very br.
276	1908.1	08.8	00.00	08.8	276	5 00	00.00	Very br.
277	1908.1	08.9	00.00	08.9	277	5 01	00.00	Very br.
278	1908.1	09.0	00.00	09.0	278	5 02	00.00	Very br.
279	1908.1	09.1	00.00	09.1	279	5 03	00.00	Very br.
280	1908.1	09.2	00.00	09.2	280	5 04	00.00	Very br.
281	1908.1	09.3	00.00	09.3	281	5 05	00.00	Very br.
282	1908.1	09.4	00.00	09.4	282	5 06	00.00	Very br.
283	1908.1	09.5	00.00	09.5	283	5 07	00.00	Very br.
284	1908.1	09.6	00.00	09.6	284	5 08	00.00	Very br.
285	1908.1	09.7	00.00	09.7	285	5 09	00.00	Very br.
286	1908.1	09.8	00.00	09.8	286	5 10	00.00	Very br.
287	1908.1	09.9	00.00	09.9	287	5 11	00.00	Very br.
288	1908.1	10.0	00.00	10.0	288	5 12	00.00	Very br.
289	1908.1	10.1	00.00	10.1	289	5 13	00.00	Very br.
290	1908.1	10.2	00.00	10.2	290	5 14	00.00	Very br.
291	1908.1	10.3	00.00	10.3	291	5 15	00.00	Very br.
292	1908.1	10.4	00.00	10.4	292	5 16	00.00	Very br.
293	1908.1	10.5	00.00	10.5	293	5 17	00.00	Very br.
294	1908.1	10.6	00.00	10.6	294	5 18	00.00	Very br.
295	1908.1	10.7	00.00	10.7	295	5 19	00.00	Very br.
296	1908.1	10.8	00.00	10.8	296	5 20	00.00	Very br.
297	1908.1	10.9	00.00	10.9	297	5 21	00.00	Very br.
298	1908.1	11.0	00.00	11.0	298	5 22	00.00	Very br.
299	1908.1	11.1	00.00	11.1	299	5 23	00.00	Very br.
300	1908.1	11.2	00.00	11.2	300	5 24	00.00	Very br.
301	1908.1	11.3	00.00	11.3	301	5 25	00.00	Very br.
302	1908.1	11.4	00.00	11.4	302	5 26	00.00	Very br.
303	1908.1	11.5	00.00	11.5	303	5 27	00.00	Very br.
304	1908.1	11.6	00.00	11.6	304	5 28	00.00	Very br.
305	1908.1	11.7	00.00	11.7	305	5 29	00.00	Very br.
306	1908.1	11.8	00.00	11.8	306	5 30	00.00	Very br.
307	1908.1	11.9	00.00	11.9	307	5 31	00.00	Very br.
308	1908.1	12.0	00.00	12.0	308	5 32	00.00	Very br.
309	1908.1	12.1	00.00	12.1	309	5 33	00.00	Very br.
310	1908.1	12.2	00.00	12.2	310	5 34	00.00	Very br.
311	1908.1	12.3	00.00	12.3	311	5 35	00.00	Very br.
312	1908.1	12.4	00.00	12.4	312	5 36	00.00	Very br.
313	1908.1	12.5	00.00	12.5	313	5 37	00.00	Very br.
314	1908.1	12.6	00.00	12.6	314	5 38	00.00	Very br.
315	1908.1	12.7	00.00	12.7	315	5 39	00.00	Very br.
316	1908.1	12.8	00.00	12.8	316	5 40	00.00	Very br.
317	1908.1	12.9	00.00	12.9	317	5 41	00.00	Very br.
318	1908.1	13.0	00.00	13.0	318	5 42	00.00	Very br.
319	1908.1	13.1	00.00	13.1	319	5 43	00.00	Very br.
320	1908.1	13.2	00.00	13.2	320	5 44	00.00	Very br.
321	1908.1	13.3	00.00	13.3	321	5 45	00.00	Very br.
322	1908.1	13.4	00.00	13.4	322	5 46	00.00	Very br.
323	1908.1	13.5	00.00	13.5	323	5 47	00.00	Very br.
324	1908.1	13.6	00.00	13.6	324	5 48	00.00	Very br.
325	1908.1	13.7	00.00	13.7	325	5 49	00.00	Very br.
326	1908.1	13.8	00.00	13.8	326	5 50	00.00	Very br.
327	1908.1	13.9	00.00	13.9				

No.	N. G. C. N.	Epoch.	Observed		H. M. S.	Description and Notes.	
			$\Delta \alpha$	$\Delta \delta$		α	δ
207	1552	1906.1 07.1	+3 30.82 30.71	+ 2 45.0 46.1	1906 4 11 41.14	- 0 58 45.3 +2 47.2	Very ft.
208	1568	1906.1 07.1 08.1	+0 25.23 25.37 24.82	- 0 17.5 09.8 08.0	1907 4 18 54.82	- 0 58 25.9 +0 25.14 -0 11.6	Ft. sm. Swift's α 21 ^s too small.
209	1576	1908.1 09.1	-0 20.37 -0 35	+ 8 45.6 46.4	1908 4 21 10.82	3 59 35.7 +8 45.7	Very ft.
210	1594	1907.1 08.1 09.1	-0 00.71 00.25 00.15	- 4 44. 47.0 44.1	2001 4 27 57.72	- 5 56 14.4 -2 00.36 -4 40.4	Very ft. Swift's α 17 ^s too great.
211	1600	1906.1 07.1	-0 41.51 41.3	- 3 00.0 57.0	2000 4 27 25.35	- 5 15 04.9 -2 58.9	Pretty br.
212	1609	1906.1 07.1	+0 46.02 45.9	+ 0 39.8 35.3	1906 4 27 01.06	- 4 35 44.5 +0 45.96 +0 37.9	Very ft.
213	1611	1906.1 07.1	+1 06.96 06.93	+ 5 11.6 15.1	1909 4 27 11.06	- 4 35 44.5 +1 06.94 +5 14.1	Very ft.
214	1614	1906.1 07.1	+0 54.45 54.60	+ 0 40.6 44.6	2002 4 28 17.49	- 8 48 02.1 -0 54.52 -0 43.1	Pretty ft. Swift's α 21 ^s too great.
215	1622	1906.1 08.0 08.1	+0 17.65 17.32 17.38	- 0 40.1 53.3 54.0	2003 4 31 19.27	- 3 33 24.9 +0 17.43 +0 52.3	Pretty ft.
216	1625	1906.1 08.1	-0 47.21 47.28	+ 3 02.3 03.9	2003 4 31 19.27	- 3 33 24.9 +0 47.28 +3 03.5	Ft. elong.
217	1628	1908.1 09.1	-1 29.48 29.43	+ 5 20.2 24.4	2006 4 34 09.28	- 5 00 19.2 -1 29.48 +5 21.3	Very ft. elong.
218	1635	1906.1	-1 24.09	+ 0 29.9	2005 4 33 38.18	- 0 45 07.4 +1 24.09 +0 30.6	Ft.
218		1908.1	-0 00.96	- 6 33.8	2007 4 35 02.99	- 0 38 04.8 -0 00.94 -6 33.8	
219	1636	1906.1 08.1	-1 39.02 39.30	+ 0 43.8 41.6	2009 4 37 31.03	- 8 48 51.9 -1 39.10 +0 41.8	Ft.
220	1637	1906.1 07.1	+3 41.04 41.11	+ 0 35.5 34.9	2004 4 32 46.36	- 3 03 42.4 +3 41.07 +0 37.2	Pretty ft. diffuse.
221	1638	1906.1 08.0	+0 39.66 39.22	+ 8 29.4 32.1	2008 4 35 54.37	- 2 08 37.1 +0 39.42 +8 31.1	Ft.
222	1646	1906.1 07.1	-0 18.35 18.50	- 1 45.4 41.7	2112 4 39 16.96	8 41 24.8 +0 18.43 -1 43.2	Ft. sm.
223	1653	1906.1 08.0	+2 27.00 26.70	- 2 26.6 26.9	2111 4 38 11.00	- 2 32 05.5 +2 26.86 -2 27.0	Ft.
223		1908.0	-0 41.62	-10 40.8	2113 4 41 27.40	- 2 23 53.9 -0 41.58 -10 41.2	
224	1659	1906.1	+3 16.85	- 1 51.6	2110 4 38 09.43	4 56 26.2 +3 16.80 -1 54.1	Pretty ft.
224		1908.1	-0 08.02	-11 03.5	2114 4 41 41.70	- 4 47 15.5 -0 07.00 -11 03.6	

No.	N. G. C. No.	Year	Observed		No.	Calculated		Remarks and Notes
			A	B		A	B	
225	1860	1908.1 08.4	-0 33.22 17.3	-0 33.7 31.0	213	4 43 13.13 29 13.47	-0 33 36.0 13 16.2	Pretty ft.
226	1881	1907.1 08.1	-0 48.04 28.16	-10 3.3 3.2	216	4 46 00.01 29 28.20	1 3 45.0 20 33.7	Very br. yellow - a double star.
227	1884	1908.1 08.2 09.0	-0 00.05 00.05 00.00	-0 01.1 4 01.1 3 00.8	217	4 47 00.00 +0 00.04	-3 25.4 +3 58.3	Pretty ft.
228	1886	1908.1 08.2	-0 11.87 00.8	-0 07.2 02.8	218	4 51 48.42 +0 00.03	-4 30 18.8 04.9	Br.
229	1733	1900.1 08.1	-0 48.00 48.00	+ 4 04.8 34.3	219	4 53 07.74 +0 43.16	-0 43 36.7 +4 04.6	Ft.
230	1737	1908.1 08.2	+0 00.40 00.00	-0 41.2 42.1	220	4 53 44.68 +0 00.70	20 20 22.7 -10 43.8	Pretty ft. N. G. C. 16400 bright
231	1710	1908.1 08.4	-0 41.80 41.3	-0 28.6 21.0	221	4 53 46.30 +0 41.80	-0 27 33.1 -3 19.9	Pretty ft.
232	1706	1906.1 08.1	-0 40.33 40.32	-4 00.3 11.5	223	4 55 08.20 -0 40.31	-0 20 30.1 -4 11.4	
233	1721	1908.1 08.1	+0 03.38 03.38	-4 40.7 41.9	222	4 54 28.40 +0 03.32	7 55 57.3 -4 41.3	Pretty ft.
234	1720	1906.1 07.2	+0 24.24 24.10	+ 1 36.4 36.3	222	4 54 28.40 +0 24.17	7 55 57.3 + 1 36.5	Ft.
235	1730	1908.1 09.1	-0 29.38 29.55	-1 29.6 29.2	224	4 55 20.57 -0 29.47	-15 56 53.3 -1 29.7	Ft.
236	1770	1906.1 07.1	-1 48.01 48.00	-0 31.3 28.1	227	5 02 20.73 -1 48.95	-0 16 34.9 -0 30.7	Pretty br.
236	1784	1908.1 09.1	-1 56.62 55.90	-0 05.0 08.4	229	5 02 43.71 -1 56.26	-12 00 24.9 -0 08.4	Pretty ft. diffuse
237	1788	1906.1 07.1	-0 33.67 33.35	-2 36.6 39.7	228	5 02 20.79 -0 33.50	3 26 37.6 -2 36.6	Pretty br. sm. stellar.
237		1907	+0 28.12	+ 1 31.8	226	5 01 28.05 +0 28.11	3 31 07.3 + 1 32.1	
238	1800	1907.1 08.2	-1 32.60 52.84	-1 8 16.9 12.8	225	5 00 45.87 + 1 33.26	32 13 30.3 +8 16.1	Ft.
239	1812	1907.1 08.1	-0 14.47 14.37	-3 57.2 54.4	230	5 07 47.45 -0 14.41	-15 44 37.3 -3 56.0	Pretty br.
240	1843	1906.1 07.2	+0 45.16 45.18	+ 6 30.5 32.4	231	5 08 38.41 +0 45.17	-10 45 10.0 +0 31.9	Ft. diffuse.
241	1888	1906.1 08.1	+1 01.62 01.62	-1 06.4 02.2	232	5 16 23.00 + 1 01.62	-11 34 41.4 -1 03.6	Pretty ft. diffuse.
241		1907.1 07.1	+1 36.55	+ 7 16.8 18.4	232	5 16 18.13 + 1 36.54	-11 42 54.7 +7 18.6	
242	1994	1908.1 07.2	-0 05.28 05.70	+ 9 50.1 50.4	235	5 20 10.02 -0 05.52	-24 46 51.0 +9 50.2	Br. lrg.

No.	N. G. C. No.	Epoch.	Observed			Star, Place, and Difference.		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ	
242		1906.1	M. S. —0 03.54	" " —9 26.7	234	H. M. S. 5 20 07.38	" " —1 27 35.1	
		07.1	02.72	22.6		—0 03.10	—9 24.5	
		07.1	03.13	24.3				
243	1924	1906.1	—0 34.72	" 2 41.8	237	5 23 41.78	—5 26 30.4	Very ft. pretty lrg.
		07.1	34.17	52.4		—0 34.47	+2 51.3	
		07.1	34.50	54.1				
243		1906.1	+0 23.03	—3 13.9	236	5 22 13.84	—5 20 24.1	
		07.1	23.40	14.7		+0 23.07	—3 14.1	
244	1961	1907.1	+0 27.68	—11 33.8	238	5 28 40.65	—21 49 23.4	Br. 'sm. stellar.
		08.1	27.55	37.2		+0 27.65	—11 35.1	
245	1999	1908.1	+1 21.60	—0 39.5	239	5 32 55.50	—6 46 05.7	Nebulous star.
						—1 21.60	—0 40.5	
245		1909.1	+1 25.32	+0 11.8	240	5 32 59.31	—6 46 54.4	
						—1 25.32	+0 10.8	
246	2076	1907.1	—0 10.90	—8 10.4	241	5 42 31.25	—16 41 00.0	Very ft. diffuse. N. G. C. δ 2' too small.
		08.2	10.78	05.3		—0 10.81	—8 07.9	
247	2089	1907.1	—1 31.25	—1 27.0	242	5 44 57.73	—17 30 45.8	Ft. sm. stellar.
		08.2	31.17	22.9		—1 31.20	—1 26.0	
248	2110	1906.1	+0 49.42	+3 46.8	243	5 46 32.26	—7 32 41.4	Ft.
		07.2	49.52	50.0		+0 49.46	+3 48.9	
249	2179	1907.1	+1 04.85	+4 03.3	244	6 02 43.70	—21 48 01.3	Ft.
		08.2	04.23	05.9		+1 04.66	+4 03.1	
		09.1	04.95	3 57.9				
250	2183	1907.1	+1 15.87	+6 57.4	245	6 04 38.73	—6 18 30.4	Very ft.
		08.2	15.57	56.1		+1 15.70	+6 57.7	
251	2196	1906.1	+1 34.33	+2 34.5	246	6 06 21.78	—21 49 28.4	Pretty br.
		07.1	34.27	38.1		+1 34.30	+2 32.7	
		08.2	34.30	37.9				
252	2206	1906.1	—0 14.70	—10 59.9	248	6 12 15.06	—26 32 53.6	Ft.
		07.1	14.32	57.1		—0 14.47	—10 58.7	
253	2207	1906.1	+1 00.83	—5 36.8	247	6 11 06.06	—21 14 41.5	Pretty br. pretty lrg.
		07.1	01.20	37.3		+1 01.03	—5 36.3	
254	2211	1907.2	+0 11.70	—7 16.5	249	6 13 56.21	—18 22 32.5	Very ft. sm. N. G. C. α 17s too great.
		08.2	12.08	21.6		+0 11.91	—7 18.9	
255	2217	1906.1	+2 27.85	—2 51.4	250	6 15 13.08	—27 08 22.7	Br.
		07.1	28.20	48.2		+2 28.03	—2 48.4	
256	2223	1906.1	—0 56.28	+5 17.2	251	6 21 21.23	—22 52 17.0	Ft. pretty lrg.
		07.1	56.67	17.8		+0 56.49	+5 14.3	
257	2267	1906.1	—0 45.80	—11 46.1	252	6 37 54.10	—32 11 34.7	Pretty br. stellar. N. G. C. α 6s too small.
		07.1	45.70	43.6		—0 45.74	—11 45.3	
258	2272	1906.1	—2 10.58	—6 56.6	253	6 40 52.45	—27 14 53.9	Very ft.
		07.1	09.97	53.7		—2 10.16	—6 58.2	
		07.2	10.01	7 00.4				

No.	Star	Epoch	Observed $\Delta\alpha$	Calculated $\Delta\alpha$	$\Delta\alpha$	Observed $\Delta\delta$	Calculated $\Delta\delta$	$\Delta\delta$	Remarks and Notes
250	2475	1906.1	22.45	22.13	+0.32	—7 30.5	—7 30.5	0	
		07.1	22.45	22.13	+0.32	—7 30.5	—7 30.5	0	
		07.1	22.45	22.13	+0.32	—7 30.5	—7 30.5	0	
251	2476	1906.1	42.84	42.84	0	—7 39 07.2	—7 39 07.2	0	
		07.1	42.84	42.84	0	—7 39 07.2	—7 39 07.2	0	
252	2477	1906.1	34.34	34.34	0	—7 39 07.2	—7 39 07.2	0	
		07.1	34.34	34.34	0	—7 39 07.2	—7 39 07.2	0	
253	2478	1906.1	18.60	18.60	0	—7 39 07.2	—7 39 07.2	0	
		07.1	18.60	18.60	0	—7 39 07.2	—7 39 07.2	0	
254	2479	1906.1	34.34	34.34	0	—7 39 07.2	—7 39 07.2	0	
		07.1	34.34	34.34	0	—7 39 07.2	—7 39 07.2	0	
255	2480	1906.1	40.30	40.30	0	—7 39 07.2	—7 39 07.2	0	
		07.1	40.30	40.30	0	—7 39 07.2	—7 39 07.2	0	
256	2481	1906.1	09.37	09.37	0	—7 39 07.2	—7 39 07.2	0	
		07.1	09.37	09.37	0	—7 39 07.2	—7 39 07.2	0	
257	2482	1906.1	27.07	27.07	0	—7 39 07.2	—7 39 07.2	0	
		07.1	27.07	27.07	0	—7 39 07.2	—7 39 07.2	0	
258	2483	1906.1	12.48	12.48	0	—7 39 07.2	—7 39 07.2	0	
		07.1	12.48	12.48	0	—7 39 07.2	—7 39 07.2	0	
259	2484	1906.1	58.32	58.32	0	—7 39 07.2	—7 39 07.2	0	
		07.1	58.32	58.32	0	—7 39 07.2	—7 39 07.2	0	
260	2485	1906.1	51.80	51.80	0	—7 39 07.2	—7 39 07.2	0	
		07.1	51.80	51.80	0	—7 39 07.2	—7 39 07.2	0	
261	2486	1906.1	50.92	50.92	0	—7 39 07.2	—7 39 07.2	0	
		07.1	50.92	50.92	0	—7 39 07.2	—7 39 07.2	0	
262	2487	1906.1	51.70	51.70	0	—7 39 07.2	—7 39 07.2	0	
		07.1	51.70	51.70	0	—7 39 07.2	—7 39 07.2	0	
263	2488	1906.1	23.62	23.62	0	—7 39 07.2	—7 39 07.2	0	
		07.1	23.62	23.62	0	—7 39 07.2	—7 39 07.2	0	
264	2489	1906.1	10.07	10.07	0	—7 39 07.2	—7 39 07.2	0	
		07.1	10.07	10.07	0	—7 39 07.2	—7 39 07.2	0	
265	2490	1906.1	09.57	09.57	0	—7 39 07.2	—7 39 07.2	0	
		07.1	09.57	09.57	0	—7 39 07.2	—7 39 07.2	0	
266	2491	1906.1	28.75	28.75	0	—7 39 07.2	—7 39 07.2	0	
		07.1	28.75	28.75	0	—7 39 07.2	—7 39 07.2	0	
267	2492	1906.1	10.07	10.07	0	—7 39 07.2	—7 39 07.2	0	
		07.1	10.07	10.07	0	—7 39 07.2	—7 39 07.2	0	
268	2493	1906.1	09.57	09.57	0	—7 39 07.2	—7 39 07.2	0	
		07.1	09.57	09.57	0	—7 39 07.2	—7 39 07.2	0	
269	2494	1906.1	28.75	28.75	0	—7 39 07.2	—7 39 07.2	0	
		07.1	28.75	28.75	0	—7 39 07.2	—7 39 07.2	0	
270	2495	1906.1	10.07	10.07	0	—7 39 07.2	—7 39 07.2	0	
		07.1	10.07	10.07	0	—7 39 07.2	—7 39 07.2	0	
271	2496	1906.1	09.57	09.57	0	—7 39 07.2	—7 39 07.2	0	
		07.1	09.57	09.57	0	—7 39 07.2	—7 39 07.2	0	
272	2497	1906.1	28.75	28.75	0	—7 39 07.2	—7 39 07.2	0	
		07.1	28.75	28.75	0	—7 39 07.2	—7 39 07.2	0	
273	2498	1906.1	10.07	10.07	0	—7 39 07.2	—7 39 07.2	0	
		07.1	10.07	10.07	0	—7 39 07.2	—7 39 07.2	0	
274	2499	1906.1	09.57	09.57	0	—7 39 07.2	—7 39 07.2	0	
		07.1	09.57	09.57	0	—7 39 07.2	—7 39 07.2	0	

No.	N. G. C. Nos.	Epoch.	Observed		*	Star. Place. and Difference.		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		1900		
						α	δ	
			M. S.	" "		H. M. S.	" "	
275	2612	1906.1	-0 26.75	+ 4 17.4	273	8 29 34.30	-12 54 18.0	Br.
		07.2	27.05	16.6		-0 26.91	+4 16.7	
276	2615	1906.2	-0 37.00	+ 6 32.4	276	8 30 08.47	- 2 18 43.8	Ft.
		07.2	37.85	29.2		-0 37.73	+6 30.5	
276		1907.2	+0 05.22	+10 17.3	272	8 29 24.94	- 2 22 28.6	
						+0 05.20	+10 17.3	
277	2616	1906.2	-0 31.25	-8 32.6	277	8 31 01.32	- 1 21 45.4	Very ft.
		07.2	31.27	31.6		-0 31.29	-8 32.1	Swift's α 6 ^s too great.
		08.2	31.42	31.3				
278	2617	1908.2	+0 52.05	+ 3 53.9	274	8 29 46.00	- 3 48 36.0	Very ft.
						+0 52.04	+3 54.4	
278		1908.2	+0 31.35	- 2 22.2	275	8 30 07.86	3 42 21.7	
		09.2	31.20	21.0		+0 31.27	-2 21.3	
279	2642	1907.2	-0 01.97	+ 5 52.6	278	8 35 46.71	- 3 52 03.3	Ft. nebulous star.
		08.2	01.10	55.6		-0 01.55	+5 53.3	N. G. C. α 4 ^s too great.
		09.2	01.52	51.8				
280	2663	1907.2	+0 11.36	-11 25.3	279	8 40 56.85	-33 14 23.6	Ft. lrg.
		07.3	11.85	24.7		+0 11.63	-11 24.9	Swift's α 2 ^s too small, δ 3' too great.
281	2665	1906.1	-0 14.06	- 8 49.0	280	8 41 42.38	-18 47 25.9	Ft.
		07.1	13.50	51.2		-0 13.76	-8 50.2	
282	2690	1907.2	+2 22.27	+ 8 14.9	281	8 45 13.07	- 2 21 48.4	Pretty ft.
		08.2	21.98	11.4		+2 22.10	+8 14.4	Swift's α 20 ^s too small, δ 1' too great.
283	2695	1907.2	-0 55.47	+ 4 40.8	283	8 50 20.34	- 2 45 54.7	Pretty br. sm. stellar.
		07.3	55.68	42.6		-0 55.58	+4 41.3	
284	2697	1907.2	-0 23.17	+ 9 28.9	283	8 50 20.34	- 2 45 54.7	Ft.
		07.3	23.35	25.5		-0 23.28	+9 27.0	
285	2698	1906.2	+0 14.12	- 2 13.3	283	8 50 20.34	- 2 45 54.7	Br. sm.
		07.2	14.15	15.0		+0 14.11	-2 13.5	
		07.3	14.07	12.6				
286	2699	1907.2	+0 26.57	+ 1 10.6	283	8 50 20.34	- 2 45 54.7	Br. sm. stellar.
		07.3	26.37	11.9		+0 26.47	+1 11.5	
287	2708	1906.2	+0 46.17	-12 44.5	283	8 50 20.34	- 2 45 54.7	Pretty ft. lrg.
		07.3	46.17	48.8		+0 46.19	-12 46.3	
288	2706	1906.2	+2 01.92	- 5 05.2	282	8 49 07.72	- 2 05 50.8	Very ft. elong.
		07.3	01.72	4 59.2		+2 01.83	-5 01.4	Swift's α 3 ^s too small, δ 1' too great.
289	2717	1906.1	+0 56.93	+ 3 16.8	284	8 51 41.46	-24 20 40.5	Pretty ft.
		07.3	56.70	20.8		+0 56.82	+3 19.2	
290	Big (2722)	1907.2	+0 41.55	- 7 53.4	286	8 53 03.44	- 3 11 30.8	Very ft.
		08.2	41.88	50.4		+0 41.73	-7 51.5	N. G. C. α 45 ^s too great.
291	2721	1907.1	+0 58.30	- 3 33.1	285	8 52 50.06	- 4 28 19.2	Ft. diffuse.
		08.2	58.35	36.5		+0 58.32	-2 34.3	
292	2763	1907.3	-0 25.85	+ 9 42.1	287	9 02 32.95	-15 15 40.2	Very ft.
		08.2	25.22	43.0		-0 25.56	+9 42.3	

No.	N. P. C. No.	Epoch.	Components		Total Proper Motion	Parallax and Distance		Remarks and Notes
			A ₁	A ₂		μ	π	
283	2781	1900.2	+1 02.97	+ 5 04.9	288	11 01 20.12	16 36 18.8	Br. sm.
		07.2	01.83	06.3		11 01 27.7	+5 00.0	
		08.2	02.87	06.4				
284	2784	1900.2	+0 17.37	+01 29.0	289	9 08 10.06	+0 20 22.2	Pretty good. Br.
		07.2	18.11	28.5		9 08 16.0	+0 20.2	
285	2811	1900.2	+1 08.5	+ 0 13.5	290	9 12 38.24	+0 32 00.0	Pretty br. sm.
		07.2	08.57	13.2		+1 08.55	+0 12.9	
286	2815	1900.2	+0 42.44	+ 8 21.5	290	9 18 08.20	+23 04 38.4	Very pretty ft.
		09.2	42.58	21.5		+0 42.5	+8 16.1	
287	2855	1900.2	+1 41.14	+ 4 05.5	297	9 14 57.40	11 33 10.3	Br. br.
		07.2	41.01	06.6		9 14 11.00	+4 06.7	
288	2805	1900.2	+0 16.37	+ 3 36.0	293	9 18 42.90	+1 34 00.0	Pretty br. sm.
		07.2	16.63	37.2		+0 16.52	+0 38.1	
289		1900.2	+0 05.00	+ 4 38.0	294	9 18 33.00	+2 36 19.3	
		07.2	06.00	39.3		+0 05.95	+4 39.0	
290	2870	1900.3	+0 44.08	+10 16.5	295	9 22 37.53	+ 6 27 21.9	Br. sm.
		08.2	43.82	16.5		+0 43.03	+10 15.3	
291	2884	1900.3	+0 17.32	+ 6 04.1	296	9 21 17.24	+11 13 35.8	Ft.
		07.4	16.92	5 56.8		+0 17.11	+6 00.6	
292	2889	1900.3	+1 05.37	+ 0 56.3	296	9 21 17.24	+11 13 38.8	Pretty ft. br.
		07.4	05.02	55.1		+1 05.19	+0 56.1	
293	2902	1907.3	+0 11.55	+ 4 50.4	297	9 20 18.38	+14 22 39.2	Pretty ft. stellar.
		08.2	11.60	52.9		+0 11.57	+4 51.5	
294	2907	1907.3	+0 20.40	+ 4 14.5	298	9 27 14.22	+16 21 57.9	Pretty br.
		08.2	20.62	19.7		+0 20.51	+4 16.9	
295	2907	1907.4	+0 46.92	+ 3 18.1	299	9 28 35.98	+ 2 06 53.5	Pretty ft.
		08.2	47.22	17.3		+0 47.06	+3 18.0	
296	2924	1900.3	+0 32.90	+ 1 20.3	300	9 29 53.58	+15 55 51.4	Pretty ft.
		08.2	33.38	20.7		+0 33.14	+1 20.4	
297	Nova	1909.2	+1 07.30	+13 20.5	302	9 32 23.05	+11 46 04.4	Ft.
		09.2	07.05	22.6		+1 07.12	+13 22.1	
298	2915	1907.3	+1 05.82	+ 7 24.5	301	9 31 02.34	+20 33 24.1	Pretty br.
		08.2	05.80	28.8		+1 05.82	+7 26.2	
299	2974	1906.2	+0 02.41	+ 0 24.8	304	9 37 28.34	+ 3 14 58.9	Br.
		07.3	02.50	21.5		+0 02.45	+0 23.1	
300	2970	1907.3	+1 40.57	+ 7 18.3	303	9 36 14.49	+10 02 51.5	Pretty ft.
		08.2	40.05	20.3		+1 40.74	+ 7 19.0	
301	2981	1907.3	+1 54.97	+22 30.0	307	9 38 56.26	+ 9 31 58.6	Ft.
						+0 54.01	+22 30.7	
302		1925.2	+1 10.45	+ 0 07.6	305	9 38 36.80	+ 9 06 18.4	
						+0 10.44	+9 07.7	
303	Nova (2978)	1909.3	+0 24.72	+14 41.8	307	9 38 56.26	+ 9 31 58.6	Ft. [precedes 2980
		08.2	24.72	41.3		+0 24.03	+14 41.3	According to SWIFT, N. G. C. 2978

N.	N. G. C. No.	Epoch.	Observed		Star.	P. M. S.		D.	Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ		
312	2983	1908.2	M. S. +0 10.70	- 6 38.2	306	H. M. S. 9 38 51.30	-19 54 27.9		Pretty ft.
		09.2	10.65	46.7		-0 00.0	-0 42.5		
		09.2	—	42.5					
313	2986	1906.3	+0 31.30	- 7 22.5	308	9 39 57.2	-20 40 51.0		Pretty br.
		07.3	31.02	19.9		-0 00.0	-7 21.0		
314	2989	1907.3	-2 40.65	- 9 00.2	310	9 43 21.12	-17 54 39.4		Ft. lrg.
		08.2	40.12	07.1		-2 40.34	-0 00.1		
315	2992	1908.2	-0 46.05	+12 16.6	309	9 44 39.52	-14 04 20.9		Pretty ft.
		08.2	45.72	20.0		-0 45.03	+12 21.8		
		09.2	45.50	24.6					
316	2993	1908.2	-0 39.41	- 9 47.6	309	9 44 39.52	-14 04 20.9		Pretty ft.
		09.2	39.08	48.4		-0 39.41	+9 49.4		
317	3022	1906.3	-0 15.50	- 3 25.2	313	9 44 54.05	- 4 38 34.0		Ft.
		08.2	15.48	29.5		-0 15.49	-3 27.5		
318	3028	1908.2	-1 07.35	+ 7 45.5	311	9 44 04.94	-18 50 50.4		Ft.
		09.2	07.35	46.9		-1 07.32	+7 46.6		
319	3038	1908.2	-0 40.83	+13 32.0	315	9 47 34.02	-32 30 38.0		Pretty br.
		09.2	40.15	33.3		-0 40.51	+13 32.3		
320	3035	1906.3	+2 18.24	+ 1 42.8	312	9 44 37.92	- 6 23 01.3		Pretty ft.
		06.3	18.43	46.0		+2 18.32	+1 45.1		
320		1908.2	-1 28.83	- 8 04.8	314	9 45 27.62	- 6 13 06.9		
		09.2	29.12	07.3		-1 28.98	-8 05.5		
321	3051	1908.2	+0 58.85	+ 2 56.9	316	9 48 29.86	-26 51 53.3		Pretty ft.
		09.2	58.90	57.4		+0 58.84	+2 57.6		
322	3054	1906.3	+0 14.55	+13 52.8	318	9 49 40.76	-25 27 44.0		Pretty br.
		08.2	14.62	48.2		+0 14.55	+13 50.6		N. G. C. a bit too small.
323	3059	1906.3	+0 28.60	-17 54.2	317	9 49 35.30	-27 31 36.4		Pretty br.
		08.2	28.18	58.9		+0 28.41	-17 56.3		
324	3078	1908.2	+0 57.65	- 4 06.4	320	9 52 54.30	-26 22 52.6		Pretty br.
		09.2	57.92	07.7		+0 57.70	-4 06.6		
324		1908.2	-0 31.98	+ 8 25.5	322	9 54 24.36	-26 35 25.1		
		09.2	31.82	22.1		-0 31.92	+8 23.6		
325	3099	1906.3	+4 29.95	- 2 47.8	319	9 51 01.17	-19 12 11.6		Pretty ft. pretty lrg.
						+4 29.90	+2 49.0		
325		1906.3	-1 05.90	- 2 00.5	324	9 56 37.03	-19 11 35.4		
		08.2	05.68	08.8		-1 05.79	+2 08.7		
326	3100	1908.2	- 2 44.40	+ 7 58.8	321	9 53 31.00	-31 40 00.8		Ft. Precedes a 10 mag. star.
						+2 44.39	+7 59.8		
326		1909.2	+1 41.25	- 7 54.7	323	9 54 34.20	-31 18 54.8		
						+1 41.19	+7 55.4		
327	3119	1906.3	- 0 48.32	- 9 53.9	325	9 58 13.71	- 6 00 20.7		Ft.
		07.4	48.30	50.4		+0 48.29	-0 52.4		
328	3115	1906.3	- 2 09.75	- 9 15.1	327	10 02 25.12	- 7 14 13.9		Br. lrg.
		08.2	09.63	13.4		-2 09.68	-0 13.5		

No.	N. G. C.	Date	Proper Motion		Parallax	Position Angle		Distance from N. G. C.
			μ_{α}	μ_{δ}		θ	ϕ	
328		1906.4	+0 58.5	+0 57.7	328	0 58	57.04	—1 50.0
		1907	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
329	1908.3	1908.3	—0 58.5	—0 57.7	329	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
		1910	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
330	1908.3	1908.3	—0 58.5	—0 57.7	330	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
331	1908.3	1908.3	—0 58.5	—0 57.7	331	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
332	3223	1908.3	—0 58.5	—0 57.7	332	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
333		1908.3	—0 58.5	—0 57.7	333	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
334	3242	1908.3	—0 58.5	—0 57.7	334	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
335	3271	1908.3	—0 58.5	—0 57.7	335	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
336	3283	1908.3	—0 58.5	—0 57.7	336	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
337	Nova	1908.3	—0 58.5	—0 57.7	337	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
338	3301	1908.3	—0 58.5	—0 57.7	338	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
339		1908.3	—0 58.5	—0 57.7	339	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
340	3303	1908.3	—0 58.5	—0 57.7	340	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
341	3309	1908.3	—0 58.5	—0 57.7	341	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
342	3315	1908.3	—0 58.5	—0 57.7	342	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
343	3321	1908.3	—0 58.5	—0 57.7	343	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0
344	3327	1908.3	—0 58.5	—0 57.7	344	—0 58	—0 57.7	—1 50.0
		1909	—0 58.5	—0 57.7		—0 58.5	—0 57.7	—1 50.0

No.	N. G. C. No.	Epoch	Observed		Star. Place. and Difference		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$	α	δ	
			M. S.	"	H. M. S.	"	
345	3537	1908.3 09.2	+0 30.64 30.30	+ 0 50.0 44.1	344 11 03 55.71 —0 30.47	— 9 43 46.6 +0 46.9	Very ft.
346	3557	1908.3 09.3	—1 18.20 18.38	— 7 47.4 46.9	346 11 06 31.57 —1 18.1	—36 52 05.0 —7 47.5	Pretty br.
347	3571	1906.3 08.3	+0 59.90 1 00.05	+ 12 33.1 31.0	348 11 07 32.95 —0 59.97	—17 57 10.4 +12 32.3	Pretty ft.
348	3585	1906.3 07.4	+1 19.04 19.05	+ 3 09.7 07.8	347 11 07 05.38 +1 19.03	—26 15 47.8 +3 09.0	Br. pretty lrg.
349	3591	1906.3 07.4	+1 13.72 13.58	— 0 15.4 15.1	349 11 07 49.39 +1 13.64	—13 23 17.1 —9 14.9	Very ft.
350	3597	1908.3 09.3	—0 05.50 05.82	— 4 54.8 52.6	350 11 09 52.30 —0 05.45	—23 06 10.1 —4 53.7	Ft. sm.
351	3617	1908.3 09.3	+0 13.25 12.98	+ 3 27.2 22.1	353 11 12 43.18 +0 13.11	—25 38 42.5 +3 24.6	Ft. stellar.
351		1909.3	+0 48.05	— 0 10.0	352 11 12 08.48 +0 48.05	—25 35 07.2 —0 10.8	
352	3621	1908.3 09.3	+2 20.05 20.25	— 0 54.4 56.6	351 11 11 05.38 +2 20.09	—32 00 16.5 —0 55.2	Pretty ft lrg. diffuse.
353	3636	1906.0 07.4	+0 06.65 06.67	+ 0 45.4 48.8	354 11 15 28.93 —0 06.66	— 9 44 49.9 +0 47.1	Ft. sm.
354	3637	1906.0 07.4	+0 07.82 07.70	+ 2 14.5 14.6	354 11 15 28.93 +0 07.76	— 9 44 49.9 +2 14.6	Ft. sm.
355	3661	1908.3 09.3	—2 15.08 15.52	— 4 53.7 49.1	355 11 20 51.96 —2 15.27	—13 12 04.8 —4 51.7	Ft.
356	3667	1908.3 09.3	—1 36.82 36.95	— 6 27.2 26.8	355 11 20 51.96 —1 36.86	—13 12 04.8 —6 27.2	Pretty ft.
357	3672	1906.3 07.3	—1 14.57 14.62	+ 5 02.8 4 56.4	356 11 21 13.14 —1 14.61	— 9 19 45.4 +4 58.9	Pretty br.
358	3693	1908.3 09.3	+0 35.65 35.55	— 5 23.6 22.8	357 11 22 33.52 +0 35.60	—12 33 16.0 —5 23.2	Pretty ft.
359	3706	1908.3 09.3	—2 37.52 37.75	— 4 08.5 08.8	363 11 27 28.86 —2 37.55	—35 46 14.7 —4 08.9	Pretty br.
360	3707	1908.3 09.3	+ 0 54.52 54.45	— 4 45.3 47.0	359 11 25 55.85 + 0 54.46	—10 54 55.8 —4 46.2	Very ft.
361	3715	1906.0	+0 04.42	— 4 53.5	361 11 26 25.51 +0 04.42	—13 35 56.0 —4 53.5	Pretty ft.
361		1906.0	—1 00.76	— 2 49.2	364 11 27 30.60 —1 00.74	—13 37 59.7 —2 49.1	
361		1907.4	+ 1 10.80	+ 13 48.1	358 11 25 18.67 +1 10.80	—13 54 31.8 +13 48.5	
362	3717	1906.4 08.3 09.3	+ 0 30.45 30.30 30.40	+ 2 26.0 13.8 37.6	360 11 26 05.14 +0 30.38	—20 42 46.5 —2 35.8	Ft. diffuse. A 13 th mag. star fol. n.

No.	S. No.	Date	Temperature		Wind	Barometer		Remarks
			Air	Soil		Atmos.	Red.	
361	2781	1908.1	+0 10.05	+ 1 00.1	360	11 31 03.1	- 1 22 05.1	Br. O. C. a too great, δ r' too small
		00.3	11.08	00.8				
362	2782	1906.4	- 1 30.61	- 2 20.2	360	11 31 03.1	- 1 22 05.1	Br.
		07.3	28.04	41.0			- 2 40.9	
363	2783	1908.1	+0 22.00	+ 1 00.1	367	11 34 43.00	- 1 25 05.1	Pretty br.
		00.3	22.00	00.1				
364	2784	1908.1	+0 04.08	+ 1 00.1	360	11 34 43.00	- 1 25 05.1	Pretty br.
		00.3	04.00	00.4				
365	2785	1908.1	+0 02.00	+ 1 00.1	367	11 34 43.00	- 1 25 05.1	Very ft.
		00.3	02.00	00.4				
366	2818	1907.4	- 1 51.00	- 2 30.4	367	11 37 42.00	- 1 25 05.1	Br.
		08.3	50.70	30.4				
367	2818	1908.1	+0 02.00	+ 1 00.1	368	11 36 40.04	- 1 25 05.1	
		00.3	02.00	00.4				
368	2823	1908.3	- 1 18.41	- 2 02.1	370	11 38 03.15	- 1 27 05.8	Very ft.
		01.3	18.01	02.1			+ 0 03.1	
369	2831	1908.1	+0 03.60	+ 1 00.1	370	11 38 10.04	- 1 27 05.8	Ft.
		00.3	03.60	00.1			- 5 58.8	
370	2832	1908.3	- 1 18.41	- 2 16.8	372	11 38 14.04	- 1 27 05.8	Ft.
		00.3	18.28	17.6			- 2 17.2	
371	3805	1908.3	+0 08.18	+ 1 00.1	373	11 30 38.43	- 1 27 05.8	Ft. lrg.
		00.3	07.94	07.8		+ 0 08.06	- 4 37.2	N. G. C. a too great, δ r' too small
372	3883	1908.1	+0 23.00	+ 1 00.1	374	11 41 19.51	- 1 27 05.8	Ft.
		00.3	23.22	20.2			+ 2 29.5	
373	3887	1908.3	- 1 10.22	- 2 04.1	377	11 43 59.28	- 1 27 05.8	Pretty br.
		07.4	10.22	14.1		- 1 59.22	- 1 27 05.8	
374	3892	1908.1	+0 02.00	+ 1 00.1	375	11 41 01.72	- 1 27 05.8	Pretty br.
		07.1	02.00	08.8		+ 0 02.00	- 0 48.1	
375	3893	1908.1	- 1 48.07	- 2 58.0	376	11 42 41.70	- 1 27 05.8	
		00.3	48.41	4 02.0			+ 4 00.0	
376	3904	1908.1	- 1 04.52	- 2 58.1	378	11 45 18.05	- 1 27 05.8	Pretty br.
		00.3	04.78	07.7		- 1 04.62	- 1 27 05.8	N. G. C. a too great
377	3905	1907.4	+0 42.77	+ 1 00.1	378	11 45 18.05	- 1 27 05.8	Br.
		00.3	42.77	00.1			+ 1 00.1	
378	3906	1907.4	- 1 20.40	- 2 10.8	380	11 47 18.88	- 1 27 05.8	
		00.3	20.40	14.0		- 1 20.40	+ 5 12.0	
379	3907	1908.3	+0 13.20	+ 1 00.1	381	11 48 20.54	- 1 27 05.8	Ft.
		00.4	13.20	45.6		+ 0 13.25	- 6 48.5	
380	3955	1908.3	- 1 11.82	- 2 58.3	382	11 49 03.84	- 1 27 05.8	Pretty br. large
		00.3	11.82	00.1			+ 4 00.0	N. G. C. a too great, δ r' too great
381	3960	1906.4	- 1 10.22	- 2 06.5	383	11 52 53.32	- 1 27 05.8	Pretty br.
		07.4	10.22	00.1		- 3 19.27	+ 8 08.2	
382	3967	1908.3	+0 13.20	+ 1 00.1	379	11 46 04.38	- 1 27 05.8	Very ft.
		00.3	13.20	45.6		+ 3 00.00	- 8 42.7	

No.	N. G. C. No.	Epoch.	Observed		Star, Position and Difference.		Description and Notes.	
			$\Delta \alpha$	$\Delta \delta$	α	δ		
			M. S.		H. M. S.	" "		
382	3970	1907.4	-0 40.68	+ 3 24.1	383	11 51 34.44	- 2 13 15.5	Pretty ft.
		08.3	40.50	22.0		-0 40.50	+3 23.0	Swift's α 7 ^s too great, δ 1' too great.
383	4006	1908.3	-1 28.10	-12 08.8	388	11 54 27.08	- 1 21 39.7	Ft.
		09.3	27.92	10.5		-1 28.01	-12 09.6	
384	Nova (4024)	1908.3	+1 23.42	+ 2 07.1	384	11 52 01.63	-17 49 34.7	Pretty br.
		09.3	23.37	08.4		+1 23.38	+2 07.7	N. G. C. α 33 ^s too great, δ 1' too great.
385	4027	1908.3	+1 23.60	- 4 09.0	386	11 53 00.18	-18 38 26.6	Pretty ft. lrg. diffuse.
		09.3	23.70	09.2		+1 23.63	-4 09.4	
386	4030	1908.3	-0 00.40	-24 31.7	390	11 55 17.31	- 0 08 06.2	Pretty br.
		09.3	00.23	33.5		0 00.32	-24 32.6	
387	4033	1906.4	+1 48.42	- 5 00.0	387	11 53 39.50	-17 12 10.3	Pretty br.
		07.4	48.68	1 56.7		+1 48.53	-4 58.8	
387		1906.4	+0 28.18	+ 9 30.2	389	11 54 59.66	-17 26 38.6	
		07.4	28.12	30.3		+0 28.15	+0 30.3	
388	4038	1906.4	+0 12.40	- 4 30.4	391	11 56 34.59	-18 14 07.3	Pretty br. lrg.
		08.3	12.04	27.4		+0 12.22	-4 28.9	
389	4070	1908.3	+0 03.33	- 4 09.5	392	11 59 39.73	- 1 45 19.5	Ft. lrg.
		09.3	03.58	12.9		+0 03.45	-4 11.2	
390	4087	1908.3	+0 11.40	+ 9 37.4	393	12 00 16.08	-26 07 30.0	Pretty ft.
		09.3	11.50	36.2		+0 11.45	+9 36.8	
391	4105	1908.3	+1 05.17	+15 17.0	394	12 00 27.29	-29 27 30.7	Pretty br.
		09.3	05.22	15.7		+1 05.17	+15 16.3	
392	4106	1908.3	+1 09.80	+14 47.4	394	12 00 27.29	-29 27 30.7	Pretty br. A little fainter than 391.
		09.3	10.02	44.9		+1 09.88	+14 46.2	
393	4129	1908.3	-0 52.85	-12 59.8	395	12 04 38.62	- 8 15 51.4	Ft. lrg.
		09.3	53.16	55.6		-0 53.00	-12 57.7	
394	4240	1907.4	+0 47.30	+ 6 05.8	396	12 11 28.27	- 9 29 51.4	Ft. sm. A 11 th mag. star. pr. s.
		08.3	47.58	04.4		+0 47.44	+6 05.1	
395	4263	1908.3	+0 13.20	+ 8 02.3	397	12 14 19.94	-11 48 17.5	Ft.
		09.3	13.39	05.5		+0 13.30	+8 03.9	N. G. C. α 3 ^s too small, δ 2' too great.
396	4329	1908.3	-1 10.82	-16 36.2	398	12 19 21.06	-11 43 40.0	Ft. sm. stellar.
		09.3	10.87	37.0		-1 10.84	-16 36.5	
397	4348	1906.3	-0 37.00	+ 3 27.3	399	12 19 23.35	- 2 56 41.6	Very ft. elong.
		07.4	37.12	21.5		-0 37.21	+3 24.7	
		08.3	37.52	25.3				
398	4391	1907.4	-0 19.50	-11 59.0	400	12 19 39.92	18 01 51.4	Br.
		08.3	19.62	58.2		0 19.55	-11 58.6	
399	4403	1908.3	0 36.12	+ 2 28.6	401	12 21 39.81	- 7 16 18.0	Ft. sm.
		09.3	36.48	21.8		-0 36.30	+2 25.2	N. G. C. α 3 ^s too great.
400	4404	1908.3	0 32.88	+ 2 37.8	401	12 21 39.81	- 7 16 18.0	Ft. sm.
		09.3	32.87	40.3		0 32.87	+2 39.0	
401	4422	1907.4	0 13.90	+13 50.7	402	12 21 49.80	5 30 30.1	Ft.
		08.3	13.82	55.3		10 13.86	+13 53.0	

No.	Alt.	Date	Observed		No.	Computed		Remarks
			α	δ		α	δ	
400	4458	1906.3	-1 06.26	-1 0 26.4	400	0 30 28.06	-1 30 28.0	Fit
		08.3	06.75	26.0		0 30 28.06	-1 30 47.4	
401	4532	1906.3	-1 06.26	-1 0 26.4	401	0 30 28.06	-7 43 30.0	Pretty ft.
		08.3	06.75	26.0		0 30 28.06	-7 43 30.0	
404	4454	1908.3	-1 06.26	-1 0 26.4	400	0 30 28.06	-1 30 28.0	Fit.
		08.3	06.75	26.0		0 30 28.25	-1 30 28.0	
405	4272	1906.3	-1 06.26	-1 0 26.4	405	12 34 56.13	-22 40 35.2	Pretty br.
		08.3	06.75	26.0		12 34 56.13	+3 46.4	
406	4400	1906.3	-1 06.26	-1 0 26.4	406	12 34 56.13	-22 40 35.2	
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
407	4520	1906.3	-1 06.26	-1 0 26.4	407	12 34 56.13	-22 40 35.2	Pretty br.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
408	4500	1908.3	-1 06.26	-1 0 26.4	410	12 34 56.13	-22 40 35.2	Cluster, lrg.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
409	4503	1906.3	-1 06.26	-1 0 26.4	409	12 34 56.13	-22 40 35.2	Pretty br. sm. stellar.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
410	4504	1907.3	-1 06.26	-1 0 26.4	410	12 34 56.13	-22 40 35.2	Very br. lrg. elong.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
411	4504	1906.3	-1 06.26	-1 0 26.4	411	12 34 56.13	-22 40 35.2	Br. lrg.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	N. G. C. 18 too great, 6 1 too great
412	4508	1906.3	-1 06.26	-1 0 26.4	412	12 34 56.13	-22 40 35.2	Pretty ft.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
413	4658	1908.3	-1 06.26	-1 0 26.4	413	12 34 56.13	-22 40 35.2	Very ft.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
414	4663	1908.3	-1 06.26	-1 0 26.4	414	12 34 56.13	-22 40 35.2	Fit. sm.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	N. G. C. 18 too great, 6 2 too small
415	4600	1908.3	-1 06.26	-1 0 26.4	415	12 34 56.13	-22 40 35.2	Very br. elong.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
416	4671	1907.3	-1 06.26	-1 0 26.4	416	12 34 56.13	-22 40 35.2	Pretty ft.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
417	4672	1906.3	-1 06.26	-1 0 26.4	417	12 34 56.13	-22 40 35.2	Fit.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	
418	4600	1908.3	-1 06.26	-1 0 26.4	418	12 34 56.13	-22 40 35.2	Very ft.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	N. G. C. 18 too great, 6 1 too great
419	4691	1907.3	-1 06.26	-1 0 26.4	419	12 34 56.13	-22 40 35.2	Pretty br.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	N. G. C. 18 too great
420	4607	1907.3	-1 06.26	-1 0 26.4	420	12 34 56.13	-22 40 35.2	Very br.
		08.3	06.75	26.0		12 34 56.13	-22 40 35.2	

No.	N. G. C. No.	Epoch	Observed		r	Star Place and Difference.		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ	
421	4699	1907.4 08.3	M. S. +3 33.15 33.10	" + 1 03.9 01.4	418	H M S 12 40 18.05 +3 33.10	" - 8 08 11.5 +1 02.2	Pretty br.
422	4700	1906.4 07.4	-2 00.58 00.97	- 8 32.4 33.0	426	12 45 56.35 -2 00.77	-10 43 22.5 -8 32.5	Ft.
423	4714	1908.8 09.3	-1 07.35 07.35	+ 9 32.4 31.5	429	12 46 13.11 -1 07.50	-12 56 17.5 +9 29.0	Ft.
424	4716	1908.3 09.3	+1 32.55 32.55	-14 01.2 13 54.5	422	12 43 48.97 +1 32.53	- 8 40 26.1 -13 58.0	Pretty ft.
425	4717	1908.3 09.3	+1 34.52 33.90	-14 42.4 42.5	422	12 43 48.97 +1 34.10	- 8 40 26.1 -14 42.7	Ft.
426	4724	1907.4 08.3	+2 16.65 16.43	+ 4 58.4 59.6	421	12 43 22.95 +2 16.53	-13 52 14.3 +4 58.7	Very ft. sm.
427	4727	1907.4 08.3	+2 20.52 20.40	+ 4 54.6 50.6	421	12 43 22.95 +2 20.45	-13 52 14.3 +4 56.8	Pretty ft. Larger than 426.
428	Nova	1908.3 09.3	+0 05.30 05.85	+ 9 11.3 11.8	429	12 46 13.11 +0 05.40	-12 56 17.5 +9 08.4	Ft.
429	4739	1907.4 08.3	-0 26.85 26.60	+ 6 47.0 52.8	430	12 46 52.51 -0 20.71	- 7 58 46.1 +6 50.0	Very ft.
430	4742	1906.4 08.3	+0 25.23 25.23	- 6 59.1 7 00.3	427	12 46 10.66 +0 25.24	- 9 47 37.8 -6 59.7	Br. sm.
431	4753	1907.4 08.4	+0 10.42 10.17	-16 16.6 17.8	431	12 47 04.54 +0 10.29	- 0 23 05.4 -16 17.2	Pretty br.
432	4756	1908.4 09.3	+1 25.00 25.42	- 4 35.7 36.1	428	12 46 12.37 +1 25.50	-14 47 38.0 -4 36.1	Ft. N. G. C. α 3 ^s too great.
433	4757	1908.4 09.3	+1 27.27 27.30	+ 1 38.0 37.7	427	12 46 10.66 +1 27.27	- 9 47 37.8 +1 37.6	Ft. N. G. C. α 2 ^s too great, δ 2' too great.
434	4759	1908.4 09.3	+0 00.46 00.00	+ 1 39.8 38.8	433	12 47 52.57 +0 00.23	- 8 41 03.5 +1 39.3	Pretty ft.
435	4761	1908.4 09.3	+0 01.48 01.60	+ 1 25.9 22.0	433	12 47 52.57 +0 01.54	- 8 41 03.5 +1 24.0	Ft.
436	4769	1906.4	-1 44.01	- 3 33.8	430	12 49 38.71 -1 44.01	- 9 53 31.0 -3 33.6	Pretty br.
436		1908.3	+1 44.25	- 9 23.6	427	12 46 10.66 +1 44.26	- 9 47 37.8 -9 24.1	
437	4770	1908.4 09.3	-0 09.45 09.40	+ 4 38.6 35.2	434	12 48 29.53 -0 09.42	- 9 04 32.1 +4 36.9	Ft. N. G. C. α 2 ^s too small, δ 1' too small.
438	4773	1908.3 09.3	+1 31.86 32.42	- 7 00.8 6 59.6	430	12 46 52.51 +1 32.09	- 7 58 46.1 -7 00.4	Ft. N. G. C. α 1 ^s too great, δ 2' too great.
439	4775	1907.4 08.3	+3 04.87 04.55	- 9 49.1 52.9	425	12 45 30.78 +3 04.69	- 5 54 56.7 -9 51.4	Ft.
440	4781	1906.4 08.1	-0 27.26 27.75	- 6 09.6 08.6	436	12 49 38.71 -0 27.50	- 9 53 31.0 -6 09.1	Pretty br. diffuse.
441	4786	1906.4	+1 34.72	+15 56.3	432	12 47 46.90 +1 34.72	- 6 34 56.4 +15 56.1	Pretty br. N. G. C. α 3 ^s too great.

No.	S. 1913 No.	Year	Observed		Calculated	Time of Day		Remarks
			A. 4	A. 5		h	m	
441		1907.4	M. S.		435	12 48	47.35	
442	278	1907.4	+0 44.02	+ 9 02.9	43	12 48	47.35	
443	4783	1907.4	+0 20.00	+ 8 54.3	437	12 48	47.35	Very br. 112.
444	2818	1907.4	+0 48.83	+ 1 45.7	439	12 48	47.35	Very br. 112.
445	2823	1908.4	+1 12.13	+ 3 07.7	438	12 48	47.35	Very br. 112.
446	2830	1908.4	+0 07.40	+ 3 40.9	440	12 48	47.35	Pretty ft.
447	2830	1907.4	+1 10.80	+ 3 27.3	441	12 48	47.35	Pretty br.
448	4200	1907.4	+0 33.71	+0 31.1	442	12 54	38.98	Br. 112.
449	4207	1908.4	+2 43.15	+ 4 13.4	448	12 58	21.22	Very ft.
450	4209	1900.3	+0 31.78	+ 3 02.6	443	12 55	09.61	Very ft.
451	4212	1907.4	+0 08.36	+ 1 33.8	444	12 55	35.40	Pretty br.
452		1907.4	+0 05.02	+ 0 44.1	445	12 55	38.77	
453	4915	1907.4	+1 42.82	+ 7 02.1	442	12 54	35.08	Br. 112.
454	4928	1908.4	+0 03.42	+ 0 35.2	447	12 57	52.00	Br. 112.
455	4933	1907.4	+0 19.48	+ 5 00.5	449	12 58	22.86	Pretty br.
456	4939	1907.4	+1 27.32	+ 9 44.5	452	13 00	27.88	Pretty ft.
457	4941	1908.4	+1 14.58	+ 12 54.2	446	12 57	18.21	Pretty ft.
458	4951	1906.4	+0 54.07	+10 01.7	450	12 59	01.50	Ft.
459	4958	1906.4	+0 27.28	+ 7 40.6	451	13 00	09.31	Very br.
460		1906.4	+0 09.38	+ 7 30.3	453	13 01	46.11	
461	4981	1906.4	+0 27.23	+16 39.8	455	13 01	11.22	Br. 9.5 mag. star fol. s.

No.	N. G. C. No.	Epoch.	Observed			Star Place and Difference		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ	
			M. S.	" "		H. M. S.	" "	
460	4984	1907.4 08.4	+0 25.60 25.87	11 20.4 24.0	454	13 03 14.15 +0 25.77	14 47 33.1 -11 25.2	Br. sm.
461	4989	1908.4 09.4	-0 40.02 40.85	+ 8 33.8 30.4	458	13 04 40.24 -0 40.87	- 5 00 18.7 +8 32.2	Pretty ft.
462	4995	1906.4 08.4	+0 04.44 04.45	- 3 07.2 09.8	456	13 04 23.89 +0 04.45	- 7 14 52.5 -3 08.5	Pretty br.
463	4997	1906.4 08.4	+0 09.44 09.42	0 00.0 00.0	457	13 04 24.03 +0 00.43	-15 58 55.6 0 00.0	Ft.
464	5018	1906.4 08.4	+0 18.52 18.55	- 4 23.7 22.3	459	13 07 21.41 +0 18.53	-18 54 51.3 -4 23.0	Pretty br.
465	5038	1908.4 09.4	-0 24.82 24.72	+10 26.3 26.3	461	13 10 07.71 -0 24.75	-15 35 47.8 +10 26.4	Pretty br.
466	5044	1907.4	0 24.27	6 30.0	462	13 10 20.05 0 24.27	-15 44 46.1 -6 38.9	Pretty br.
466		1908.4	+1 15.50	+10 10.0	460	13 08 40.16 +1 15.52	-16 01 20.7 +10 00.7	
467	5048	1908.4 09.4	-2 14.75 14.90	- 4 44.4 48.2	464	13 12 53.68 -2 14.77	-27 48 10.5 -4 45.8	Very ft.
468	5061	1906.4 07.4	-0 10.26 10.46	+ 0 15.6 18.9	463	13 12 46.73 -0 10.33	-26 18 52.7 +0 17.2	Very br.
469	5077	1906.4	-2 35.57	- 4 34.6	471	13 16 50.91 -2 35.55	-12 03 19.9 -4 34.2	Pretty br.
469		1907.5	+0 32.60	- 0 34.1	465	13 13 42.19 +0 32.60	-12 07 17.4 -0 34.2	
470	5078	1906.4 08.4	-0 39.52 39.35	0 00.0 -0 04.6	468	13 15 00.01 -0 39.44	-26 53 03.0 -0 02.2	Pretty br.
471	5084	1906.4 07.4	-0 48.88 49.30	- 1 15.8 15.4	470	13 15 40.97 -0 49.09	-21 16 54.1 -1 15.4	Pretty ft.
472	5087	1908.4 09.4	+0 31.47 31.58	2 46.3 48.4	466	13 14 30.01 +0 31.51	-20 02 23.0 -2 47.5	Pretty ft. N. G. C. α 3 ^s too great.
473	5101	1906.4 08.4	+1 15.88 15.82	1 19.9 19.2	468	13 15 00.01 +1 15.83	-26 53 03.0 -1 19.8	Pretty br.
473		1906.4	+0 46.28	+ 0 28.2	469	13 15 29.68 +0 46.28	-26 54 48.6 +0 28.1	
474	5102	1908.4 09.4	+1 18.70 19.13	+ 4 43.8 45.6	467	13 14 58.37 +1 18.64	-36 11 05.5 +4 43.6	Pretty br. N. G. C. α 4 ^s too great.
475	5111	1908.4 09.4	+0 11.08 11.30	+13 19.7 19.3	472	13 17 27.94 +0 11.21	-12 39 48.8 +13 19.5	Pretty ft.
476	5119	1906.4 08.4	+1 52.28 51.09	+18 07.1 10.0	471	13 16 50.91 +1 52.09	-12 03 19.9 +18 08.2	Pretty br.
477	5122	1906.5 08.4	+1 13.77 13.7	+ 2 32.7 38.7	473	13 17 45.73 +1 13.66	-10 10 29.8 +2 35.4	Ft. Swift's α 3 ^s too great, δ 1' too small.

No.	S. No.	Date	(Observed)		No.	(Calculated)		Remarks
			M. S.	A. S.		H. M.	A. M.	
475	5403	1908.4	—0 33.25	—1 34.2	475	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
476	5404	1908.4	—0 33.10	—1 34.0	476	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
		08.4	15.50	24.1		—2	—2	
477	5405	1908.4	—0 33.10	—1 34.0	477	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
478	5406	1908.4	—0 33.10	—1 34.0	478	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
479	5407	1908.4	—0 33.10	—1 34.0	479	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
480	5408	1908.4	—0 33.10	—1 34.0	480	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
481	5409	1908.4	—0 33.10	—1 34.0	481	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
482	5410	1908.4	—0 33.10	—1 34.0	482	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
483	5411	1908.4	—0 33.10	—1 34.0	483	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
484	5412	1908.4	—0 33.10	—1 34.0	484	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
485	5413	1908.4	—0 33.10	—1 34.0	485	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
486	5414	1908.4	—0 33.10	—1 34.0	486	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
487	5415	1908.4	—0 33.10	—1 34.0	487	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
488	5416	1908.4	—0 33.10	—1 34.0	488	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
489	5417	1908.4	—0 33.10	—1 34.0	489	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
490	5418	1908.4	—0 33.10	—1 34.0	490	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
491	5419	1908.4	—0 33.10	—1 34.0	491	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
492	5420	1908.4	—0 33.10	—1 34.0	492	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
493	5421	1908.4	—0 33.10	—1 34.0	493	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
494	5422	1908.4	—0 33.10	—1 34.0	494	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
495	5423	1908.4	—0 33.10	—1 34.0	495	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
496	5424	1908.4	—0 33.10	—1 34.0	496	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
497	5425	1908.4	—0 33.10	—1 34.0	497	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
498	5426	1908.4	—0 33.10	—1 34.0	498	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
499	5427	1908.4	—0 33.10	—1 34.0	499	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	
500	5428	1908.4	—0 33.10	—1 34.0	500	13 26 26.10	—0 20 14.6	Very ft.
		08.4	37.34	40.7		—0 20 14.6	—0 20 14.6	

No.	N. G. C. No.	Epoch.	Observed		Star Position and Distance		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$	α	δ	
497	5427	1906.4	M. S.	" "	H. M. S.	" "	Pretty ft.
		07.4	-2 53.07	+ 4 28.3	14 01 05.95	- 5 37 30.4	
497	5427	1908.5	53.03	34.6	-2 53.04	+4 32.0	
497	5427	1908.5	-2 11.0	-12 12.1	13 59 24.06	- 5 20 57.6	
					-1 11.01	-12 03.8	
498	5403	1906.4	-0 55.52	+ 7 10.6	14 07 11.83	- 4 41 33.2	Br. sm. stellar.
		07.4	55.50	07.5	-0 55.70	+7 09.3	
499	5406	1906.4	- 18.70	- 1 29.6	14 06 14.35	- 0 38 51.3	Pretty br. lrg. elong. N. G. C. α 3 ^s too small.
		08.5	18.72	25.8	+0 18.71	-1 27.8	
500	5506	1906.4	+0 28.53	+ 6 11.8	14 07 35.14	- 2 50 30.7	Ft. diffuse.
		07.4	27.50	13.2	+0 28.28	+6 11.2	
		08.5	28.66	14.9			
501	5507	1906.4	+0 33.73	+ 9 43.1	14 07 35.14	- 2 50 30.7	Ft. sm.
		07.4	33.85	43.2	+0 33.72	+9 41.2	
502	5534	1906.4	-0 18.43	+ 7 05.7	14 12 42.04	- 7 04 24.4	Pretty ft.
		07.4	18.52	08.8	-0 18.34	+7 05.9	
503	5595	1906.5	-2 47.00	+15 36.1	14 15 55.45	-10 31 43.7	Ft.
		07.5	47.58	36.1	+2 47.59	+15 35.2	
504	5604	1906.5	+2 05.35	- 1 54.0	14 17 20.01	- 2 43 36.0	Ft.
		07.4	04.55	57.0	+2 04.91	-1 56.6	
		08.5	04.87	56.6			
505	5634	1906.4	-0 04.80	+ 0 24.0	14 24 27.06	- 5 32 13.3	Very br.
		07.5	04.77	24.4	-0 04.78	+0 24.2	
506	5661	1906.5	+0 29.73	+ 5 18.3	14 32 16.01	- 0 03 10.3	Pretty br.
		07.5	29.22	20.2	-0 29.48	+5 19.1	
507	5694	1906.4	-0 03.82	+10 57.3	14 33 51.14	-26 17 27.5	Pretty br.
		07.5	04.25	11 05.1	-0 04.02	+11 01.2	
507		1906.4	-1 19.55	- 6 29.1	14 35 06.95	-25 59 57.6	
		07.5	19.52	27.5	-1 19.53	-6 27.9	
508	5729	1906.4	-2 58.29	- 4 29.2	14 39 45.78	- 8 30 24.5	Ft. diffuse.
					-2 58.28	-4 28.2	
508		1907.4	-1 15.34	+ 7 12.6	14 38 02.22	- 8 42 06.2	
					-1 15.32	+7 13.0	
509	5728	1906.5	+0 35.45	+ 3 31.4	14 36 15.01	-16 51 02.6	Pretty ft.
		07.5	35.38	30.9	+0 35.42	+1 30.5	
509		1906.5	+0 00.82	+ 3 41.2	14 36 49.79	-16 53 10.6	
		07.5	00.62	32.6	+0 00.72	+3 36.9	
510	Nova (5742)	1906.4	+1 19.53	-11 38.8	14 38 52.48	-11 11 34.7	Ft. sm. N. G. C. α 42 ^s too small, δ 1' too great.
		07.5	18.90	37.4	+1 19.26	-11 40.5	
		09.4	19.45	43.7			
511	5756	1906.4	+1 42.63	+ 8 04.4	14 40 20.79	-14 34 00.0	Pretty br.
		07.5	43.15	07.0	+1 42.90	+8 05.0	
512	5757	1908.4	-1 53.03	- 8 03.3	14 44 04.07	-18 31 34.0	Ft.
		09.4	54.85	03.0	-1 54.05	-8 03.3	

No.	Epoch	M. S.				M. S.				Remarks
		M.	S.	M.	S.	M.	S.	M.	S.	
570	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Pretty ft.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
571	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
572	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Pretty br.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
573	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Pretty br.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
574	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Very ft.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
575	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Pretty br.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
576	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Very br.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
577	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Ft.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Bigourdan 187.
578	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
579	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Ft. sm. stellar.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
580	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
581	1906.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Ft. lrg.
	1907.5	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	N. G. C. α 3 rd too small.
582	1905.5	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Ft.
	1907.5	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	W. G. C. α 1 st too small.
583	1905.5	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Ft.
	1907.5	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
584	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Pretty br.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
585	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Ft.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
586	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Very ft.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	W. G. C. α 1 st too small.
587	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Ft.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	N. G. C. α 2 nd too small.
588	1905.5	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Pretty ft.
	1907.5	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	N. G. C. δ 2 nd too small.
589	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Very ft.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	
590	1908.1	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	Br.
	1909.4	14 54	58.08	14 54	58.08	14 54	58.08	14 54	58.08	

No.	N. G. C. No.	Epoch.	Observed		Star.	P. M. S.		Difference	Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ		
531	5936	1905.5	M. S.		H. M. S.				
		06.5	+1 28.29	+ 1 00.0	548	15 14 38.64	-12 49 43.8		Very ft.
			28.43	12.3		-1 28.36	+1 10.6		
532	5937	1905.5	-1 58.89	- 4 09.7	539	15 17 06.47	- 6 56 53.0		Very ft.
		07.5	54.10	11.2		-0 53.4	-4 10.2		
533	5937	1905.5	-1 57.68	-10 22.1	531	15 24 26.75	- 2 28 51.3		Pretty br.
		06.5	57.68	21.0		+0 27.67	-0 22.0		
534	5939	1905.5	-1 46.58	3 22.5	533	15 32 29.64	-16 12 35.2		Very ft.
		07.5	46.25	27.4		-0 46.41	-3 24.7		N. G. C. α 8s too small, δ 1' too small.
534		1907.5	-1 47.27	+ 8 07.4	532	15 32 00.47	-16 24 04.9		
						0 17.26	+8 07.5		
535	5995	1905.5	+0 03.33	- 0 21.8	534	15 42 47.66	-13 26 32.7		Very ft.
		07.5	03.33	-7.3		+0 03.35	-0 24.5		
536	5996	1905.5	-0 33.56	+ 1 30.5	535	15 44 13.39	-29 06 31.0		Very ft.
		07.5	33.20	38.9		-0 33.48	+1 38.0		
537	6072	1906.5	+0 09.00	- 7 25.3	536	16 06 23.96	-35 50 52.2		Pretty ft.
		07.5	09.08	27.4		+0 01.09	-7 26.4		N. G. C. α 3s too small, δ 1' too great.
538	6073	1905.6	-0 12.33	- 3 12.1	537	16 11 16.95	-22 40 25.5		Very br.
		06.5	12.32	13.1		-0 12.12	-3 13.9		
539	6174	1905.5	+1 41.35	+ 4 28.9	538	16 25 14.30	-12 54 57.0		Br. lrg.
		07.5	41.18	32.3		+1 41.27	+4 30.5		
540	6220	1906.5	-1 07.27	-11 32.0	539	16 44 13.44	+ 0 05 51.3		Ft.
		07.5	07.48	41.8		-2 07.42	-11 35.6		Swift's α 5s too great, δ 1' too small.
		09.4	07.43	34.2					
541	6235	1905.6	+2 31.81	+ 1 22.1	540	16 44 54.10	-22 01 50.6		Pretty br.
		06.5	32.05	22.4		+2 31.62	+1 21.6		
542	6266	1905.6	+2 36.96	+ 0 01.3	541	16 52 14.32	-29 57 54.3		Very br.
		07.5	37.25	06.3		+2 37.09	+0 02.4		
542	6266	1905.6	-2 15.73	- 1 45.3	543	16 57 07.06	-29 59 38.4		
		07.5	15.85	35.6		-2 15.80	+1 43.7		
543	6273	1905.6	-3 57.29	+ 0 10.2	546	16 58 24.29	-26 07 34.2		Very br.
		06.5	56.93	04.2		-1 57.17	+0 18.2		
543	6273	1905.6	-3 10.05	+ 3 45.7	547	16 55 55.50	-26 11 04.7		
		07.5	31.50	39.8		+0 11.42	+3 42.5		
544	6284	1905.6	-3 31.20	+ 4 43.6	545	16 57 26.73	-24 42 12.2		Br.
		06.5	35.43	32.3		+0 35.33	+4 42.5		
545	6287	1905.6	+1 28.63	- 2 06.8	544	16 57 39.60	-22 31 59.1		Br.
		06.5	28.57	26.6		-1 28.58	-2 11.4		
545	6293	1905.6	-1 16.00	- 1 13.2	547	17 00 11.39	-26 22 39.1		Br.
						+3 16.27	-4 42.8		
546		1905.6	-0 31.20	-7 49.1	547	17 04 40.06	-26 19 32.0		
		06.5	31.22	48.0		0 41.84	-7 48.3		
546		1905.6	-1 26.25	- 1 13.8	549	17 05 24.09	-26 34 40.0		
						-1 26.22	-7 24.4		

No.	N	Epoch.	Observed		I	Corrected (from ref. position)		Description, Notes
			$\Delta \alpha$	$\Delta \delta$		$\Delta \alpha$	$\Delta \delta$	
			M. S.			H. M. S.		
426	6440	1906.5 07.5	17.20		551	42.05	18.2	Pretty br.
428	6442	1906.5 00.5		+10.0	550	7.05		Br. lrg.
430	6444	1906.5 00.5	50.08	02.3	554		00.5	Br. cluster.
431	6440	1906.5 07.5	14.00	25.6	553	27.51	14.3	Br.
433	6448	1906.5 07.5	06.32	+18.10.8	554	23.57	45.0	Pretty br. N. G. C. a 28' too great
435	6443	1906.5 07.5	00.03	+18.33.1	553	23.80	14.7	Br. cluster.
437	6446	1906.5 07.5	24.08	30.0	556	34.68	40.0	Pretty br.
438	6440	1906.5 07.5	00.00	+0.24.5	557	00.84	30.1	Very br. lrg.
439	6443	1906.5 07.5	04.20	7.20.0	556	04.30	43.2	Br. lrg.
440	6440	1906.5 07.5	08.40	10.0	550	23.21	20.1	Very br.
442	6442	1906.5 07.5	10.03	14.00.0	560	11.23	09.8	Br. very lrg.
448	6440	1906.5 00.5	08.13	+7.48.7	561	08.53	50.2	Pretty br. Star involved on 1 side
449	6440	1906.5 07.5	01.13	+5.00.7	561	58.38	36.8	Pretty br.
450	6445	1906.5 07.5	00.17	0.0	563	30.08	11.0	Pretty br.
451	6446	1906.5 07.5	22.20	0.0	562	02.07	40.7	Br.
452	6448	1906.5 00.4	33.94	20.4	564	46.41	50.5	Pretty br. N. G. C. a 28' too great, δ 2' too great.
453	6441	1906.5 07.5	00.00	17.40.0	560	25.11	16.0	Pretty br.
454	6442	1906.5 07.5	01.58	25.7	562	17.57	44.4	Br.
455	6448	1906.5 07.5	13.17	11.50.0	566	13.26	52.1	Pretty ft.
456	6447	1906.5 00.4	50.07	+9.24.7	568	52.88	23.0	Pretty ft.
457	6443	1906.5 00.4	41.01	+4.39.7	567	41.10	07.8	Ft. diffuse.

No.	N. G. C. No.	Epoch.	Observed			S. P. C. D. 10000			Description and Notes.
			Δ 4	Δ 5		δ	δ	δ	
568	6540	1908.4 09.4	M. S. +0 48.70 48.88	+ 4 00.5 00.0	570	H. M. S. 17 59 02.88 +0 48.80	-27 50 19.8 +3 50.6		Pretty ft. N. G. C. α 6 ^s too great, δ 3' too great.
569	6544	1908.5 09.4	-0 06.72 06.76	+ 6 25.8 25.7	571	18 01 17.24 +0 06.74	-25 06 55.2 +6 25.7		Pretty br.
570	6553	1908.5 09.4	+0 55.05 55.10	-11 52.6 46.4	572	18 02 10.05 +0 55.05	-25 43 39.0 -11 50.2		Ft. lrg. diffuse. N. G. C. α 8 ^s too great.
571	6558	1906.5 08.5	-0 02.85 03.07	- 3 49.8 51.8	573	8 3 50.73 -0 03.01	-31 33 00.0 13 50.8		Pretty br.
572	6560	1908.5 09.4	+0 01.92 02.35	+ 8 21.7 24.6	574	18 07 06.50 +0 02.17	-31 50 31.8 +8 23.2		Pretty br. diffuse.
573	6624	1906.5 07.7	-1 49.72 49.65	- 5 13.0 14.2	576	18 10 05.01 -1 49.70	-30 18 25.4 -6 12.6		Br.
574	6626	1906.5 07.7	+0 33.25 33.4	- 6 00.3 58.4	575	18 17 50.90 +0 33.21	-24 40 16.6 -5 59.7		Br. large
575	6629	1908.5 09.4	+0 01.55 02.10	- 7 19.1 22.1	577	18 19 30.73 -0 01.96	-23 08 09.2 -7 20.6		Br. sm.
576	6638	1906.5 07.7	+0 36.72 36.40	+ 3 01.7 03.7	578	18 24 08.81 +0 36.57	-25 30 57.6 +3 02.3		Br.
577	6637	1907.5 08.5	+0 13.08 12.75	- 3 38.3 41.3	580	18 24 39.08 +0 12.91	-32 21 20.6 -3 30.9		Br.
578	6642	1906.7 07.7	+1 25.02 24.77	-13 30.5 37.0	579	18 24 24.67 +1 24.86	-23 10 01.5 -13 30.0		Pretty br.
579	6652	1906.7 07.7	+1 48.50 48.15	- 1 08.4 10.6	581	18 27 24.12 +1 48.49	-33 05 25.9 +1 17.9		Br.
580	6681	1906.7 07.7	+1 03.23 02.87	+ 4 25.9 28.9	582	18 35 30.10 +1 03.07	-32 27 41.2 +4 24.3		Br.
581	6712	1906.7 07.7	-0 15.75 16.07	- 1 40.5 43.5	584	18 47 53.39 -0 15.01	- 8 47 59.0 -1 41.0		Pretty br. lrg.
582	6718	1907.7 08.5	+1 33.47 33.45	- 8 19.9 22.4	583	18 47 05.75 +1 33.45	-30 30 55.5 -5 22.2		Very br.
583	6717	1908.5 09.5	-0 00.3 00.50	- 54.1 51.1	585	18 49 04.40 -0 00.43	-22 47 46.3 +1 52.7		Ft. sm.
584	6711	1908.5 09.5	+0 00.85 00.50	- 1 40.6 40.2	586	18 49 04.40 +0 00.76	-22 47 46.3 -1 40.5		Very ft. sm. Bigourdan.
585	6723	1908.5 09.5	-0 09.95 10.7	- 9 18.4 20.9	589	18 52 59.04 -0 10.02	-30 55 18.0 -9 18.3		Br. lrg.
586	6733	1906.5 07.7	-0 26.55 26.78	- 3 09.5 58.8	587	19 01 01.28 -0 26.65	- 6 13 36.7 +4 57.7		Pretty br. sm.
587	6772	1908.5 09.5	-0 42.7 42.47	- 1 40.1 1.0	588	19 08 41.00 +0 42.38	-2 14 11.0 +1 42.3		Very ft. lrg.
588	6778	1906.7 07.7	-0 10.13 10.1	- 1 01.1 1.1	590	19 11 31.60 -0 10.08	-1 48 35.0 -1 02.8		Ft. sm. N. G. C. α 6 ^s too small, δ 1' too great.

No.	N. G. C. No.	Epoch.	Observed			Star. Place, and Difference, 1900		Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ	
			M. S.	"		H. M. S.	"	
608	7171	1907.7	-0 03.00	-14 49.7	612	21 55 41.77	13 30 15.9	Very ft.
		08.7	02.70	38.7		-0 02.90	-14 45.1	
609	7172	1906.8	-0 30.95	+15 51.5	613	21 56 43.30	-32 36 59.3	Very ft.
		07.7	31.25	50.4		-0 31.08	+15 51.2	
610	7173	1906.8	-0 30.30	+0 30.0	613	21 56 43.30	-32 36 59.3	Pretty br. sm.
		07.7	30.12	41.9		-0 30.20	+0 40.7	
611	7176	1906.8	0 24.00	+8 37.4	613	21 56 43.30	-32 36 59.3	Pretty br. sm.
		07.7	24.45	39.8		-0 24.51	+8 38.8	
612	7180	1906.8	-2 07.78	-8 01.3	614	21 58 53.50	-20 53 46.7	Pretty br.
		07.7	07.42	00.8		-2 07.64	-8 00.3	N. G. C. α 5 ^s too small.
613	7183	1907.8	-3 33.58	+0 56.8	615	22 00 24.26	-19 25 03.2	Very ft.
		08.7	32.60	1 09.5		-3 33.08	+1 03.2	
		08.8	32.05	0 50.7				
614	7184	1906.8	+2 09.70	+0 12.2	611	21 54 57.37	-21 17 55.1	Pretty br. lrg. diffuse.
		07.7	09.85	06.7		+2 09.75	+0 09.5	
		07.7	09.65	11.8				
615	7185	1906.8	-1 29.05	-3 30.2	614	21 58 53.50	-20 53 46.7	Pretty ft.
		07.7	29.10	27.1		-1 29.10	-3 28.1	
616	7218	1906.8	+1 45.80	-7 05.9	616	22 02 59.31	-17 01 50.5	Ft. lrg.
		07.7	46.30	07.7		+1 46.05	-7 07.4	
617	7225	1906.8	+0 10.72	+10 45.6	617	22 07 19.49	-26 40 15.4	Pretty ft.
		07.7	10.70	41.9		+0 10.73	+10 43.8	
618	7230	1907.8	-0 45.43	+4 07.9	618	22 09 32.19	-17 38 26.8	Very ft.
		08.8	45.02	14.6		-0 45.22	+4 11.4	
619	7247	1906.8	+0 10.33	-1 18.2	619	22 11 56.79	-24 12 36.3	Ft.
		07.8	09.82	15.7		+0 10.07	-1 17.0	N. G. C. α 27 ^s too great.
620	7251	1906.8	-0 38.80	-1 23.7	622	22 15 42.15	-16 15 11.0	Ft.
		07.8	39.30	25.0		-0 39.05	-1 24.3	
621	7252	1906.8	+1 04.82	-2 23.1	620	22 14 06.34	-25 08 27.7	Ft.
		07.8	04.38	26.5		+1 04.61	-2 25.1	
621		1906.8	-1 56.32	+0 54.7	623	22 17 07.37	-25 11 50.3	
						-1 56.33	+0 55.2	
622	7260	1906.8	+2 04.32	+2 20.2	621	22 15 20.64	-4 39 48.4	Very ft.
						+2 04.33	+2 19.7	
622		1906.8	-0 59.15	-16 32.4	624	22 18 23.67	-4 21 04.0	
						-0 59.17	-16 32.2	
622		1906.8	-1 36.67	-6 51.4	625	22 19 01.29	4 30 39.6	
		07.8	36.62	58.4		-1 36.66	-6 54.5	
623	Big. (7266)	1906.8	+0 24.05	-13 44.3	624	22 18 23.67	-4 21 04.0	Ft.
		06.8	24.37	44.3		+0 24.22	-13 43.7	N. G. C. α 24 ^s too small, δ 6' too small.
		06.8	24.27	42.1				
623		1906.8	-0 13.57	-4 09.8	625	22 19 01.29	-4 30 39.6	
		07.8	13.87	09.9		-0 13.72	-4 09.8	

No.	No.	Position		Distance		Direction		Remarks
		Lat.	Long.	Lat.	Long.	Lat.	Long.	
60	1007.7	08.8	00.57	08.8	00.75	08.8	00.57	Pretty ft.
61	1000.8	07.7	01.40	07.7	01.40	07.7	01.40	Very ft.
62	1000.8	07.8	01.40	07.8	01.40	07.8	01.40	Very ft.
63	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
64	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
65	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
66	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
67	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
68	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
69	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
70	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
71	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
72	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
73	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
74	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
75	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
76	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
77	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
78	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
79	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
80	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
81	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
82	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
83	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
84	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
85	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
86	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
87	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
88	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
89	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
90	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
91	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
92	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
93	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
94	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
95	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
96	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
97	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
98	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
99	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.
100	1007.8	08.8	03.8	08.8	03.8	08.8	03.8	Very ft.

No.	N. G. C. No.	Epoch.	Observed			Star, Place, and Difference.			Description and Notes.
			$\Delta \alpha$	$\Delta \delta$		α	δ		
			M. S.	" "		H. M. S.	" "		
	7428	1906.8	-0 04.68	- 1 51.8	647	22 52 16.33	- 1 33 07.4	Ft.	
		07.8	04.67	53.1		-0 04.68	-1 52.5		
642	7443	1907.8	+0 35.98	- 2 55.5	648	22 54 17.62	-13 17 43.4	Pretty br.	
		08.8	35.87	53.8		+0 35.92	-2 54.6		
643	7444	1907.8	+0 36.15	- 4 35.7	648	22 54 17.62	-13 17 43.4	Pretty br.	
		08.8	36.05	35.2		+0 36.10	-4 35.5		
644	7450	1907.8	+1 14.75	- 9 32.8	648	22 54 17.62	-13 17 43.4	Very ft.	
		08.8	15.16	34.9		+1 14.95	-1 33.9	Tempel's α 6s too great.	
645	7453	1906.8	-1 07.08	+12 59.4	649	22 57 21.05	- 7 06 39.2	Pretty br. A 11th mag. star pr. n.	
		07.7	07.12	57.6		-1 07.10	+12 58.6		
646	7484	1907.8	-0 00.17	+ 0 45.9	650	23 01 33.80	-36 49 41.3	Pretty br.	
		08.8	00.00	45.4		-0 00.09	+0 45.6		
647	7506	1905.8	-0 24.12	- 0 43.7	652	23 06 50.03	- 2 41 27.9	Pretty ft.	
		06.8	24.00	45.4		-0 24.06	-0 44.5		
647		1906.8	-0 31.47	- 6 46.6	653	23 07 04.19	- 2 35 23.7		
						-0 31.47	-6 46.5		
648	7507	1905.8	-2 25.21	- 4 51.4	656	23 09 09.51	-29 00 09.2	Pretty br.	
		06.8	25.32	51.3		-2 25.31	-4 51.1		
649	7513	1907.8	-0 04.87	+ 3 27.7	654	23 07 54.05	-28 57 25.3	Ft. lrg. diffuse.	
		08.8	04.06	19.3		-0 04.45	+3 23.5		
650	7521	1907.7	+1 53.20	- 3 25.7	651	23 06 33.75	- 2 13 06.6	Very ft.	
		08.8	53.45	23.4		+1 53.32	-3 24.8		
651	7556	1907.8	+1 38.12	+15 09.8	655	23 08 57.78	- 3 10 44.1	Pretty br.	
		08.8	38.58	06.8		+1 38.36	+15 08.1		
652	7579	1906.8	-0 30.65	-12 19.6	657	23 12 44.19	- 5 04 05.3	Ft.	
		07.8	30.63	21.0		-0 30.64	-12 20.3		
653	7585	1905.8	-3 20.47	+ 1 25.2	662	23 16 12.28	- 5 13 11.4	Pretty br.	
						-3 20.47	+1 25.5		
653		1905.9	+0 07.86	- 7 44.8	657	23 12 44.19	- 5 04 05.3		
		06.8	08.02	42.4		+0 07.93	-7 42.8		
		07.8	07.90	41.2					
654	7600	1906.8	+0 31.77	- 8 35.0	659	23 13 11.43	- 7 58 59.3	Pretty br.	
		07.8	31.85	41.4		+0 31.84	-8 38.7		
		08.8	31.90	39.7					
655	7603	1907.8	+0 30.17	-15 08.3	658	23 12 59.63	- 0 03 06.8	Very ft. stellar.	
		08.8	50.20	04.2		+0 50.17	-15 06.3		
656	7606	1905.9	-1 30.64	+ 3 57.8	660	23 15 24.16	- 0 05 51.2	Pretty br. lrg. elong.	
		06.9	30.75	58.8		-1 30.70	+3 58.5		
656		1906.9	-1 27.00	+ 0 48.2	661	23 15 50.91	- 0 02 30.5		
						-1 27.31	+0 48.6		
657	7665	1907.8	+ 46.05	- 7 11.2	663	23 23 50.30	- 0 48 58.3	Pretty ft.	
		08.8	49.11	09.7		-1 45.11	- 7 11.8	N. G. C. δ 2' too great.	
658	7701	1905.7	- 2 13.12	+ 6 26.8	667	23 31 36.44	- 3 30 54.2	Ft. sm.	
		06.9	13.17	26.0		-2 13.15	+6 26.5		

No.	Elev.	Time	St. Place				Remarks
			1	2	3	4	
			H. M.				
655		1005.8	00.74	22.8	33.43		
656	7700	1005.0	00.74	22.8			
657	7710	1006.0	00.74	22.8			
658	7710	1007.8	00.74	22.8			
659	7710	1007.8	00.74	22.8			
660	7710	1007.8	00.74	22.8			
661	7710	1007.8	00.74	22.8			
662	7710	1007.8	00.74	22.8			
663	7710	1007.8	00.74	22.8			
664	7710	1007.8	00.74	22.8			
665	7710	1007.8	00.74	22.8			
666	7710	1007.8	00.74	22.8			
667	7710	1007.8	00.74	22.8			
668	7710	1007.8	00.74	22.8			
669	7710	1007.8	00.74	22.8			
670	7710	1007.8	00.74	22.8			
671	7710	1007.8	00.74	22.8			
672	7710	1007.8	00.74	22.8			
673	7710	1007.8	00.74	22.8			
674	7710	1007.8	00.74	22.8			
675	7710	1007.8	00.74	22.8			
676	7710	1007.8	00.74	22.8			
677	7710	1007.8	00.74	22.8			
678	7710	1007.8	00.74	22.8			
679	7710	1007.8	00.74	22.8			
680	7710	1007.8	00.74	22.8			
681	7710	1007.8	00.74	22.8			
682	7710	1007.8	00.74	22.8			
683	7710	1007.8	00.74	22.8			
684	7710	1007.8	00.74	22.8			
685	7710	1007.8	00.74	22.8			
686	7710	1007.8	00.74	22.8			
687	7710	1007.8	00.74	22.8			
688	7710	1007.8	00.74	22.8			
689	7710	1007.8	00.74	22.8			
690	7710	1007.8	00.74	22.8			
691	7710	1007.8	00.74	22.8			
692	7710	1007.8	00.74	22.8			
693	7710	1007.8	00.74	22.8			
694	7710	1007.8	00.74	22.8			
695	7710	1007.8	00.74	22.8			
696	7710	1007.8	00.74	22.8			
697	7710	1007.8	00.74	22.8			
698	7710	1007.8	00.74	22.8			
699	7710	1007.8	00.74	22.8			
700	7710	1007.8	00.74	22.8			

Catalogue of Nebulae.

No.	Name	Year	Right Ascension	Declination	Position	Distance	Size	Remarks
1	3003	1908.1	0 04 52.84	19 00 15.3	+	20.048—0.187	2	1
2	31	1907.1	06 00.64	12 39 49.4	—	20.450—0.20	2	1
3	47	1907.3	09 24.27	— 7 43 25.6	—	20.035—0.26	2	1
4	50	1907.3	09 38.27	— 7 54 04.1	—	20.034—0.28	2	1
5	91	1908.3	11 18.17	— 6 52 36.9	—	20.028—0.31	2	1
6	Appen.	1908.1	0 13 49.00	+ 3.0673 + 0.07	—	20.016—0.36	2	1
7	113	1908.4	21 48.24	3 03 18.3	—	19.961—0.52	2	1
8	114	1906.8	21 51.26	— 2 20 23.0	—	19.991—0.52	2	1
9	118	1906.8	22 00.55	2 19 59.1	—	19.958—0.52	2	1
10	134	1908.1	25 25.46	— 33 47 50.5	—	19.930—0.56	2	1
11	145	1907.1	0 26 39.86	5 42 14.1	+	19.916—0.61	2	1
12	149	1908.1	28 58.82	— 10 15 23.1	—	19.891—0.64	2	1
13	8000	1908.3	29 18.58	— 28 21 19.3	—	19.888—0.64	2	1
14	Nova	1906.9	29 19.54	32 20 21.9	—	19.858—0.61	2	1
15	150	1906.9	29 37.55	— 11 19 06.6	—	19.885—0.66	2	1
16	151	1907.4	29 41.71	— 8 56 58.1	—	19.881—0.66	2	1
17	160	1906.9	31 56.53	3 0302—0.18	—	19.870—0.68	2	1
18	175	1906.9	32 21.97	3.0024—0.68	—	19.852—0.69	2	1
19	190	1907.1	33 56.00	— 9 33 12.6	—	19.833—0.71	2	1
20	Nova	1908.3	34 06.98	— 14 43 20.6	—	19.810—0.74	2	1
21	Nova	1908.1	0 34 28.66	+ 3.0182—0.39	—	19.826—0.75	2	1
22	210	1906.9	35 33.54	3.0106—0.34	—	19.811—0.78	2	1
23	217	1906.9	37 30.92	— 10 34 16.3	—	19.797—0.79	2	1
24	227	1908.3	37 30.42	3.0648 + 0.29	—	19.784—0.81	2	1
25	237	1908.1	38 21.07	— 0 40 22.3	—	19.772—0.83	2	1
26	240	1908.3	0 39 32.07	+ 3.0554 + 0.19	—	19.771—0.83	2	1
27	243	1908.3	40 47.00	3.0042—0.39	—	19.760—0.86	2	1
28	245	1906.4	42 53.13	— 2 16 12.6	—	19.730—0.88	2	1
29	250	1908.3	42 39.59	— 25 50 14.0	—	19.716—0.88	2	1
30	257	1908.3	42 45.80	— 12 00 48.1	—	19.704—0.91	2	1
31	260	1908.2	0 42 57.75	+ 3.0582 + 0.26	—	19.690—0.92	2	1
32	266	1907.4	42 58.63	3.0637 + 0.32	—	19.680—0.93	2	1
33	268	1908.3	45 05.09	3.0464 + 0.16	—	19.665—0.95	2	1
34	270	1908.3	45 29.77	3.0300—0.02	—	19.658—0.96	2	1
35	271	1908.3	45 35.62	3.0614 + 0.32	—	19.657—0.97	2	1
36	273	1906.9	0 45 58.27	+ 3.0371 + 0.06	—	19.650—0.97	2	1
37	276	1908.1	47 02.82	3.0596 + 0.31	—	19.631—1.00	2	1
38	280	1908.4	47 53.25	2.9912—1.15	—	19.616—1.03	2	1
39	287	1906.4	49 59.33	3.0327 + 0.08	—	19.577—1.04	2	1
40	290	1908.1	51 41.94	— 10 27 27.5	—	19.560—1.06	2	1

No.	Mag.	Epoch.	R. A.	Dec.	Precession 1900 + t	No. of Nights	No. of Stars
			H. M. S.	S.	"	"	
41	337	1906.9	0 54 47.68	3.0275 + 0.007	— 8 07 09.5	+19.482—1.134	2
42	341	1907.6	55 43.83	3.0175 + 0.03	— 9 43 34.2	19.402—1.15	3
43	349	1908.4	56 47.79	3.0308 + 0.14	— 7 20 20.5	19.439—1.16	2
44	351	1908.4	56 52.30	3.0585 + 0.38	— 2 28 26.0	19.438—1.17	2
45	352	1907.9	57 04.61	3.0451 + 0.26	— 4 47 11.5	19.434—1.18	2
46	356	1908.4	0 58 04.35	+3.0284 + 0.14	— 7 31 33.8	19.412—1.19	2
47	357	1908.4	58 18.91	3.0321 + 0.17	— 6 52 35.7	19.406—1.20	2
48	364	1908.4	59 33.82	3.0647 + 0.44	— 1 20 21.0	19.379—1.23	2
49	426	1908.4	1 07 41.73	3.0672 + 0.51	0 49 16.2	19.184—1.39	2
50	429	1908.4	07 50.59	3.0667 + 0.51	0 52 34.2	19.180—1.39	2
51	430	1908.4	1 07 53.14	+3.0674 + 0.51	— 0 46 58.5	+19.179—1.39	2
52	439	1908.4	09 05.49	2.8225—0.94	—32 16 33.2	19.148—1.30	2
53	442	1908.4	09 32.53	3.0619 + 0.48	— 1 33 00.0	19.136—1.42	2
54	448	1906.5	10 10.52	3.0575 + 0.45	2 09 21.5	19.120—1.42	2
55	497	1906.4	17 17.74	3.0619 + 0.52	— 1 23 55.2	18.622—1.55	2
56	541	1906.9	1 20 38.49	+3.0574 + 0.52	— 1 54 04.7	+18.824—1.62	3
57	547	1906.9	20 54.29	3.0576 + 0.52	1 51 52.8	18.816—1.62	3
58	560	1908.4	22 20.01	3.0527 + 0.50	— 2 25 57.0	18.772—1.64	2
59	564	1908.4	22 42.83	3.0529 + 0.50	— 2 23 52.5	18.760—1.64	2
60	570	1908.4	23 52.30	3.0605 + 0.55	1 27 57.5	18.724—1.67	2
61	577	1908.4	1 25 35.27	+3.0513 + 0.51	— 2 30 42.0	+18.670—1.70	2
62	578	1908.4	25 42.55	2.8635—0.39	—23 11 00.2	18.666—1.61	2
63	584	1907.6	26 20.02	3.0090 + 0.28	— 7 22 58.8	18.648—1.69	3
64	585	1908.4	26 35.87	3.0602 + 0.57	— 1 26 50.4	18.638—1.72	2
65	590	1906.9	27 51.13	3.0065 + 0.30	— 7 32 44.6	18.597—1.72	2
66	613	1908.4	1 29 40.57	+2.7791—0.63	—29 55 53.9	+18.537—1.63	2
67	615	1906.9	30 05.71	3.0021 + 0.29	— 7 51 10.2	18.522—1.75	2
68	636	1906.4	34 06.80	2.9975 + 0.31	8 01 17.4	18.385—1.83	2
69	682	1906.9	44 13.70	2.9105 + 0.05	—15 28 24.7	18.015—1.94	2
70	681	1906.9	44 14.91	2.9594 + 0.23	—10 55 28.8	18.013—1.97	2
71	686	1908.4	1 44 15.50	+2.8075—0.29	24 17 43.7	+18.013—1.88	2
72	Nova	1908.6	45 29.97	2.9784 + 0.31	9 01 10.4	17.965—2.01	3
73	701	1907.6	46 07.32	2.9653 + 0.26	—10 11 55.1	17.941—2.01	3
74	702	1908.4	46 16.45	3.0251 + 0.51	— 4 33 02.1	17.934—2.05	2
75	707	1908.4	46 29.87	2.9778 + 0.32	9 00 02.6	17.926—2.03	2
76	720	1906.9	1 48 08.77	+2.9185 + 0.12	—14 13 55.5	+17.861—2.01	2
77	723	1908.4	49 06.13	2.7067—0.25	—24 15 00.0	17.823—1.95	2
78	731	1908.4	49 59.50	2.9694 + 0.31	— 9 30 08.2	17.787—2.08	2
79	749	1907.4	51 11.03	2.7067—0.44	—30 24 41.3	17.738—1.91	2
80	748	1907.4	51 20.03	3.0192 + 0.51	4 57 30.5	17.732—2.12	2
81	755	1908.4	1 51 26.48	+2.9676 + 0.32	9 33 07.9	+17.728—2.10	2
82	762	1908.4	51 56.98	3.0080 + 0.47	— 5 53 24.1	17.707—2.14	2
83	773	1908.4	53 58.71	2.9371 + 0.23	—12 03 01.1	17.623—2.13	2
84	779	1906.8	54 42.72	3.0002 + 0.46	— 6 27 01.3	17.592—2.18	2
85	787	1908.4	55 52.47	2.9645 + 0.34	— 9 29 14.5	17.544—2.17	2
86	788	1907.4	1 56 07.50	+2.9903 + 0.43	— 7 17 58.2	+17.533—2.19	2
87	806	1908.4	58 36.09	2.9512 + 0.32	—10 24 49.9	17.427—2.20	2
88	809	1908.4	2 03 44.83	2.9729 + 0.41	— 8 15 54.2	17.199—2.31	2
89	830	1908.6	04 01.16	2.9730 + 0.41	— 8 14 23.1	17.187—2.31	3, 2
90	833	1908.4	04 26.26	2.9434 + 0.34	—10 36 25.1	17.168—2.29	2

№	№	Риски	№	№	№	№	№
100	100	1008.4	04 53.62			17.105—2.201	1
100	100	1008.4	06 08.38			17.102—2.30	1
100	100	1008.4	08 32.26			17.102—2.30	1
100	100	1008.4	09 27.87			17.102—2.30	1
100	100	1008.4	11 40.18			17.102—2.30	1
100	100	1007.0	13 41.38	2.9800 ± 0.50	7 06 03.2	17.001—2.40	1
100	100	1007.0	14 07.28		9 46 35.3	17.002—2.34	1
100	100	1008.4	16 36.62	2.9941 ± 0.54	1 11 08.3	16.080—2.45	2
100	100	1008.4	17 35.34		14 34 38.5	16.037—2.46	2
105	105	1008.4	18 25.56	2.7788 ± 0.04	11 48 50.0	16.011—2.46	2
108	108	1008.0	20 33.07	2.7700 ± 0.02			
108	108	1007.0	22 32.38	3.0500 ± 0.74	21 41 23.5	16.502—2.36	2
110	1055	1008.5	23 45.33	2.9202 ± 0.40	25 15 05.9	16.398—2.34	2
110	1055	1008.5	25 27.93	3.0512 ± 0.75	1 36 20.2	16.301—2.67	2
110	1055	1008.5	27 31.22	2.8183 ± 0.10	10 59 12.3	16.235—2.57	2
110	1055	1008.5	33 06.46	3.0474 ± 0.75	3 33 11.2	16.147—2.71	2
110	1055	1008.5	33 36.00	2.9691 ± 0.55			
110	1055	1008.4	34 35.12	2.9470 ± 0.50	3 22 58.1	16.111—2.81	2
110	1055	1008.4	35 26.33	2.9865 ± 0.50	17 39 33.5	16.041—2.53	2
110	1055	1008.4	35 39.13	2.8987 ± 0.41	1 45 10.4	15.741—2.82	2
110	1055	1008.4	36 10.45	2.9441 ± 0.51	7 06 39.2	15.700—2.77	2
110	1055	1008.4	37 33.65	3.0662 ± 0.81	8 34 01.4	15.661—2.76	2
110	1055	1008.5	38 45.31	2.9917 ± 0.48	5 52 12.7	15.615—2.80	2
110	1055	1008.5	39 25.54		11 42 24.0		2
110	1055	1008.5	40 23.00	2.8256 ± 0.29	8 41 04.7		3
110	1055	1007.0	41 14.78		0 26 20.6	15.500—2.91	2
110	1055	1007.5	41 16.41	3.0588 ± 0.79	15 34 46.9	15.431—2.71	2
110	1055	1008.4	41 27.53	3.0626 ± 0.80	29 25 39.0	15.394—2.49	3
110	1055	1008.4	42 12.41	2.5572 ± 0.95	16 00 37.6	15.340—2.72	2
110	1055	1008.4	42 21.37	3.0620 ± 0.80	7 59 58.9	15.301—2.85	2
110	1055	1008.4	45 34.86	3.0395 ± 0.75	6 55 11.2	15.285—2.95	2
110	1055	1008.4	47 00.55		8 45 27.3	15.278—2.96	2
110	1055	1007.0	47 46.86	3.0464 ± 0.78	30 41 38.8	15.245—2.49	2
110	1055	1008.6	49 42.77	2.9966 ± 0.48	0 42 17.7	15.227—2.97	2
110	1055	1008.5	50 03.17	3.0635 ± 0.82	2 08 51.5	15.042—3.00	2
110	1055	1008.5	51 14.11	3.0635 ± 0.82	17 03 43.5		2
110	1055	1008.4	53 17.74		1 41 07.7		2
110	1055	1009.4	53 23.29	2.8984 ± 0.48	10 26 04.5	14.800—2.93	2
110	1055	1008.5	54 30.41	2.8635 ± 0.43	0 35 06.4	14.780—3.08	2
110	1055	1008.5	55 32.11	2.8189 ± 0.37	0 35 23.0	14.780—3.08	2
110	1055	1008.5	58 10.85		10 45 52.2	14.587—2.96	2
110	1055	1008.5	58 58.03	2.8027 ± 0.35	10 45 59.7	14.581—2.96	2
110	1200	1008.5	59 10.85	2.8659 ± 0.44	12 47 51.9		2
110	1200	1008.5	59 10.85		15 13 54.3	14.369—2.93	2
110	1200	1008.5	58 10.85		23 15 39.4	14.292—2.79	2
110	1200	1008.5	58 58.03		25 28 18.2	14.292—2.79	2
110	1200	1008.5	59 10.85		12 22 59.4	14.234—3.01	2

No.	N. G. C. No.	Epoch.	R. A. 1900.	Precession 1900 + t	Decl. 1900	Precession 1900 + t	No. of Nights.	Stars.
			H. M. S.	S.	"	"		
141	1201	1907.0	2 59 47.88	-2.6027 + 0.137	-26 27 39.2	+14.192-2.747	2	2
142	1208	1907.7	3 01 21.08	2.9063 + 0.52	9 55 46.6	14.095-3.07	3, 2	1
143	1209	1908.5	01 22.94	2.7900 + 0.36	15 59 55.6	14.003-2.07	2	1
144	1211	1907.0	01 46.88	3.0530 + 0.80	1 10 52.2	14.068-3.24	2	1
145	1222	1908.5	03 54.95	3.0166 + 0.72	3 20 16.4	13.935-3.22	2	1
146	1232	1908.5	3 05 15.29	+2.7024 + 0.26	-20 57 43.2	+13.851-2.91	2	1
147	1238	1907.1	06 04.68	2.8819 + 0.49	-11 07 33.9	13.798-3.11	2	1
148	1241	1908.5	06 23.24	2.9137 + 0.54	-9 18 02.3	13.779-3.15	2	1
149	1247	1908.5	07 25.53	2.8858 + 0.51	-10 51 24.9	13.713-3.13	2	1
150	1248	1908.5	07 50.64	2.9700 + 0.65	-5 36 02.4	13.686-3.23	2	1
151	1285	1908.5	3 12 59.22	+2.9384 + 0.60	-7 40 00.1	+13.355-3.25	2	1
152	1297	1908.5	14 42.58	2.7170 + 0.31	-19 27 54.6	13.241-3.03	2	1
153	1300	1907.1	15 10.05	2.7111 + 0.31	-19 46 27.0	13.210-3.03	2	1
154	1302	1908.5	15 33.69	2.5722 + 0.20	-26 25 27.4	13.184-2.88	2	1
155	1304	1908.5	16 14.29	2.9853 + 0.97	-4 56 38.9	13.140-3.34	2	1
156	1305	1907.1	3 16 20.36	3.0254 + 0.74	-2 40 40.3	+13.132-3.39	2	2
157	1309	1908.5	17 27.88	2.7865 + 0.39	-15 45 28.6	13.058-3.14	2	1
158	1315	1908.5	18 40.28	2.6665 + 0.28	-21 43 55.9	12.978-3.02	2	1
159	1320	1908.5	19 47.36	3.0120 + 0.72	-3 23 48.4	12.904-3.42	2	1
160	1321	1908.5	19 47.43	3.0124 + 0.72	-3 22 12.4	12.904-3.42	2	1
161	1324	1908.5	3 20 05.07	+2.9633 + 0.65	-6 05 54.0	+12.884-3.37	2	1
162	1329	1909.5	21 28.83	2.7394 + 0.36	-17 56 36.3	12.791-3.14	2	1
163	1332	1908.5	21 51.01	2.6628 + 0.29	-21 41 08.5	12.765-3.05	2	1
164	1337	1908.5	23 15.33	2.9135 + 0.58	8 44 12.2	12.669-3.35	2	1
165	1339	1908.5	24 06.01	2.4073 + 0.18	-32 37 54.4	12.612-2.79	2	1
166	1340	1908.0	3 24 15.94	+2.4374 + 0.18	-31 24 50.2	+12.593-2.82	1	2
167	1346	1908.5	25 16.79	2.9651 + 0.64	-5 53 11.6	12.533-3.43	2	1
168	1353	1908.5	27 36.43	2.6655 + 0.31	-21 09 32.4	12.372-3.11	2	1
169	1354	1908.5	27 51.23	2.7795 + 0.42	-15 33 36.2	12.355-3.24	2	1
170	1355	1908.6	28 26.00	2.9742 + 0.66	-5 20 13.8	12.315-3.48	2	1
171	1357	1907.5	3 28 36.17	+2.8095 + 0.46	-14 00 05.4	+12.304-3.30	2	1
172	1358	1908.6	28 42.33	2.9724 + 0.66	-5 25 35.3	12.297-3.47	2	1
173	1359	1908.6	29 18.99	2.6912 + 0.34	-19 49 46.5	12.256-3.16	2	1
174	1362	1908.6	29 25.66	2.6745 + 0.33	-20 37 06.4	12.246-3.14	2	1
175	1365	1908.5	29 47.84	2.2893 + 0.20	-36 28 31.4	12.221-2.70	2	1
176	1371	1908.0	3 30 44.12	+2.5709 + 0.27	-25 16 01.3	+12.155-3.04	4	1
177	1374	1908.7	31 25.62	2.3110 + 0.19	-35 33 31.7	12.107-2.74	3	1
178	1377	1908.5	32 13.37	2.6577 + 0.32	21 14 00.1	12.053-3.15	2	1
179	1380	1908.5	32 35.76	2.3158 + 0.19	-35 18 22.4	12.027-2.76	2	1
180	1383	1908.5	33 08.05	2.7107 + 0.36	18 40 03.1	11.900-3.22	2	1
181	1385	1908.6	3 33 10.70	+2.5767 + 0.28	-24 49 50.9	+11.986-3.06	2	1
182	1393	1908.5	34 07.96	2.7077 + 0.36	18 45 18.0	11.919-3.22	2	1
183	1395	1907.1	34 08.99	2.6084 + 0.29	23 21 17.6	11.917-3.11	2	1
184	1398	1908.6	34 38.93	2.5319 + 0.25	-26 39 49.7	11.882-3.02	2	1
185	1399	1908.6	34 39.66	2.2968 + 0.21	-35 46 35.0	11.882-2.75	2	1
186	1401	1908.6	3 35 00.38	+2.6140 + 0.30	-23 03 03.3	+11.857-3.12	2	1
187	1409	1908.6	35 00.95	2.7014 + 0.37	19 00 49.2	11.850-3.22	2	1
188	1404	1908.4	35 02.78	2.2916 + 0.21	-35 55 09.2	11.855-2.74	2	2
189	1407	1908.6	35 41.81	2.7027 + 0.37	-18 54 16.6	11.808-3.23	2	1
190	1410	1908.6	36 06.16	3.0420 + 0.76	-1 37 29.4	11.779-3.04	2	1

Star	RA	Dec	Mag	Parallax	Proper Motion	Radial Velocity	Distance	Notes
36	35.55							
37	35.47							
38	26.70							
39	27.49							
40	32.84							
41	28.05							
42	27.98							
43	53.13							
44	14.32							
45	48.49							
46	27.98							
47	57.23							
48	35.09							
49	46.92							
50	12.29							
51	19.96							
52	19.45							
53	57.30							
54	43.94							
55	47.62							
56	08.60							
57	12.01							
58	36.70							
59	06.55							
60	39.80							
61	02.16							
62	51.87							
63	27.43							
64	33.79							
65	35.39							
66	45.84							
67	33.54							
68	43.99							
69	55.11							
70	31.29							
71	00.35							
72	48.93							
73	54.38							
74	28.00							
75	31.81							
76	52.66							
77	01.10							
78	31.78							
79	47.46							
80	56.25							
81	39.07							
82	33.94							
83	23.59							

	N. G. C. No.	Epoch.	R. A. 1900.	Precession 1900 + t	Decl. 1900	Precession 1900 + t	No. of Nights.	Stars.
			H. M. S.	S.	"	"		
241	1888	1907.1	5 17 54.64	+2.8030+0.347	11 35 40.5	+3.663-4.037	3.4	2
242	1904	1906.7	20 04.37	2.4693+0.29	—24 37 00.1	3.473-3.56	3	2
243	1924	1906.7	23 07.39	2.9480+0.36	—5 23 38.7	3.212-4.26	3	2
244	1904	1907.6	29 08.30	2.5371+0.28	22 00 58.5	2.692-3.68	2	1
245	1900	1908.6	31 33.94	2.9150+0.31	—6 46 44.9	2.481-4.23	2	2
246	2076	1907.7	5 42 20.44	+2.6600+0.267	—16 49 07.9	+1.544-3.887	2	1
247	2089	1907.7	43 26.53	2.6489+0.20	—17 38 11.8	1.447-3.85	2	1
248	2110	1906.7	47 21.72	2.8074+0.25	—7 28 52.5	+1.105-4.22	2	1
249	2179	1908.1	6 03 48.36	2.5399+0.20	—21 43 58.2	0.334-3.70	3	1
250	2183	1907.7	05 54.43	2.9277+0.17	—6 11 32.7	0.518-4.27	2	1
251	2196	1907.1	6 07 56.08	+2.5389+0.19	—21 46 55.7	—0.694-3.69	3	1
252	2206	1906.6	12 00.59	2.4003+0.20	—26 43 52.3	1.048-3.49	2	1
253	2207	1906.6	12 07.09	2.5513+0.18	—21 20 17.8	1.071-3.71	2	1
254	2211	1907.7	14 08.12	2.6264+0.17	—18 29 51.4	1.236-3.82	2	1
255	2217	1906.6	17 41.11	2.3880+0.19	—27 11 11.1	1.546-3.47	2	1
256	2223	1906.6	6 20 24.74	+2.5135+0.17	—22 47 02.7	1.700-3.65	2	1
257	2207	1906.6	37 08.36	2.2359+0.15	—32 23 20.0	3.233-3.21	2	1
258	2272	1906.8	38 42.29	2.3907+0.14	27 21 52.1	3.370-3.42	3	1
259	2271	1906.8	38 43.06	2.5031+0.13	23 22 40.2	3.371-3.58	3	1
260	2293	1906.7	43 41.65	2.4141+0.14	—26 38 37.4	3.798-3.44	2	1
261	Big	1906.6	6 44 11.47	+2.6768+0.10	—16 47 24.5	—3.843-3.81	2	1
262	2313	1906.8	53 13.46	2.8942-0.01	—7 48 43.9	3.614-4.09	2	2
263	2316	1906.8	54 51.78	2.8985-0.02	—7 38 19.1	4.755-4.08	2	2
264	2325	1906.6	58 43.79	2.3690+0.12	—28 33 06.5	5.081-3.32	2	1
265	2380	1907.5	7 19 52.80	2.4233+0.11	—27 20 02.8	6.849-3.29	3	2
266	2377	1907.7	7 20 11.58	+2.8635-0.07	—9 27 25.1	—6.875-3.89	2	1
267	2438	1907.7	37 15.21	2.7576-0.03	—14 30 00.7	8.258-3.63	2	1
268	2440	1906.7	37 27.57	2.6776+0.02	—17 58 26.5	8.273-3.52	2	1
269	2452	1907.7	43 20.84	2.4574+0.10	—27 05 15.8	8.730-3.10	2	1
270	2501	1907.7	53 52.56	2.7779-0.05	—14 05 00.2	9.558-3.52	2	1
271	2566	1908.2	8 14 31.09	+2.5492+0.12	—25 11 13.9	11.104-3.05	3	1
272	Nova	1906.6	18 28.36	2.9843-0.29	—4 35 40.1	11.391-3.53	2	2
273	2610	1908.2	28 45.70	2.7713-0.02	—15 48 30.1	12.122-3.16	3	1
274	2613	1907.7	28 59.80	2.6291+0.11	—22 37 55.1	12.137-3.00	2	1
275	2612	1906.7	29 07.39	2.8304-0.09	—12 50 01.3	12.144-3.23	2	1
276	2615	1906.8	8 29 30.54	+3.0318-0.37	2 12 12.6	—12.173-3.45	2	2
277	2616	1907.2	30 30.03	3.0451-0.39	1 30 17.5	12.242-3.46	3	1
278	2617	1908.5	30 39.07	3.0034-0.33	3 44 42.5	12.252-3.30	2	2
279	2642	1908.2	35 45.16	3.0042-0.33	3 46 10.0	12.002-3.35	3	1
280	2663	1907.7	41 08.48	2.3996+0.29	—33 25 48.5	12.065-2.61	2	1
281	2665	1906.6	8 41 28.62	+2.7233+0.08	18 56 16.1	—12.988-2.97	2	1
282	2690	1907.7	47 35.17	3.0340-0.38	—2 13 34.0	13.300-3.23	2	1
283	2695	1907.3	49 24.76	3.0263-0.36	—2 41 13.4	13.509-3.24	2	1
284	2697	1907.3	49 57.06	3.0278-0.37	2 36 27.7	13.514-3.19	2	1
285	2698	1906.9	50 34.45	3.0246-0.36	—2 48 08.2	13.585-3.18	3	1
286	2699	1907.3	8 50 46.81	+3.0256-0.36	—2 44 43.2	—13.597-3.18	2	1
287	2708	1906.7	51 06.53	3.0217-0.35	—2 58 41.0	13.619-3.18	2	1
288	2706	1906.7	51 09.55	3.0353-0.38	2 10 52.2	13.622-3.19	2	1
289	2717	1906.7	52 38.28	2.6325+0.22	—24 17 21.3	13.716-2.73	2	1
290	1112	1907.7	53 45.17	3.0163-0.34	—3 19 22.3	13.787-3.13	2	1

No.	N. G. C. No.	Epoch.	R. A. 1900.	Precession 1900 + t	Decl. 1900	Precession 1900 + t	No. of Nights. Stars.	
			H. M. S.	S.	' "	"		
341	3411	1906.7	10 45 28.11	+2.9704 + 0.371	12 18 59.2	-19.001 - 1.321	3	1
342	3508	1907.3	58 02.40	2.9720 + 0.63	15 45 03.4	19.324 - 1.07	3	1
343	3511	1908.9	58 31.05	2.9256 + 0.95	22 32 52.7	19.335 - 1.04	3, 2	1
344	3528	1907.3	11 02 22.02	2.9586 + 0.81	18 55 53.1	19.421 - 1.00	2	1
345	3537	1908.8	03 25.24	3.0168 + 0.36	9 42 59.7	19.444 - 0.99	2	1
346	3557	1908.8	11 05 13.36	+2.8342 + 1.75	36 59 52.5	-19.482 - 0.90	2	1
347	3571	1907.3	06 32.68	2.9738 + 0.77	17 44 47.1	19.509 - 0.91	2	1
348	3585	1906.9	08 24.41	2.9258 - 1.21	26 12 38.8	19.546 - 0.87	2	1
349	3591	1906.9	09 03.00	3.0017 - 0.58	13 32 32.0	19.559 - 0.88	2	1
350	3597	1908.8	09 46.85	2.9482 + 1.06	23 11 03.8	19.572 - 0.85	2	1
351	3617	1909.0	11 12 56.41	+2.9422 + 1.22	25 35 18.0	-19.631 - 0.79	3	2
352	3621	1908.8	13 25.47	2.9021 + 1.58	32 16 11.7	19.639 - 0.77	2	1
353	3630	1906.7	15 22.27	3.0283 + 0.43	9 44 02.8	19.674 - 0.78	2	1
354	3637	1906.7	15 36.69	3.0287 + 0.44	9 42 35.3	19.678 - 0.77	2	1
355	3661	1908.8	18 36.69	3.0160 + 0.63	13 16 56.5	19.726 - 0.71	2	1
356	3667	1908.8	11 19 15.10	+3.0168 + 0.63	13 18 32.0	-19.736 - 0.70	2	1
357	3672	1906.8	19 58.53	3.0340 + 0.44	9 14 46.5	19.747 - 0.68	2	1
358	3693	1908.8	23 09.12	3.0247 + 0.63	12 38 39.2	19.794 - 0.62	2	1
359	3706	1908.8	24 51.31	2.9253 + 1.03	35 50 23.6	19.817 - 0.57	2	1
360	3707	1908.8	25 01.39	3.0332 + 0.58	10 59 42.0	19.819 - 0.59	2	1
361	3715	1906.5	11 26 29.76	+3.0253 + 0.70	13 40 47.9	-19.838 - 0.55	2	3
362	3717	1908.0	26 35.52	2.9617 + 1.57	29 45 22.3	19.839 - 0.54	3	1
363	3723	1908.8	27 26.76	3.0413 + 0.40	9 25 02.1	19.850 - 0.54	2	1
364	3732	1906.8	29 09.63	3.0434 + 0.50	9 17 37.7	19.871 - 0.51	2	1
365	Nova	1908.8	34 00.98	3.0493 + 0.40	8 47 39.8	19.923 - 0.42	2	1
366	3783	1908.8	11 34 05.01	+2.9583 + 2.05	37 11 05.0	-19.924 - 0.40	2	1
367	3791	1908.8	34 36.74	3.0498 + 0.50	8 48 47.8	19.929 - 0.41	2	1
368	3818	1908.0	36 51.49	3.0595 + 0.35	5 36 05.4	19.950 - 0.36	2	2
369	3823	1908.8	37 10.81	3.0413 + 0.75	13 18 44.7	19.953 - 0.36	2	1
370	3831	1908.8	38 13.79	3.0450 + 0.71	12 19 25.7	19.962 - 0.34	2	1
371	3836	1908.8	11 38 26.22	+3.0361 + 0.92	16 14 37.5	-19.963 - 0.32	2	1
372	3865	1908.8	39 46.49	3.0547 + 0.53	8 40 42.7	19.974 - 0.31	2	1
373	3885	1908.8	41 44.60	3.0177 + 1.57	27 21 59.9	19.989 - 0.26	2	1
374	3887	1906.9	42 00.06	3.0420 + 0.94	16 18 02.8	19.990 - 0.27	2	1
375	3892	1906.8	42 55.61	3.0544 + 0.63	10 24 26.0	19.996 - 0.25	2	2
376	3904	1906.8	11 44 10.43	+3.0222 + 1.60	28 43 17.4	-20.004 - 0.22	2	1
377	3923	1907.7	45 58.19	3.0288 + 1.66	28 14 58.5	20.014 - 0.19	2	2
378	3952	1908.8	48 33.79	3.0687 + 0.31	3 26 27.1	20.027 - 0.14	2	1
379	3955	1908.8	48 52.13	3.0457 + 1.35	22 36 32.0	20.029 - 0.13	2	1
380	3962	1906.9	49 34.05	3.0582 + 0.83	13 25 09.7	20.031 - 0.11	2	1
381	3967	1908.8	11 50 03.90	+3.0653 + 0.51	7 17 12.6	-20.033 - 0.11	2	1
382	3979	1907.9	50 53.85	3.0707 + 0.25	2 09 52.5	20.036 - 0.09	2	1
383	4006	1908.8	52 59.07	3.0716 + 0.23	1 33 49.3	20.042 - 0.05	2	1
384	Nova	1908.8	53 25.01	3.0604 + 1.10	17 47 27.0	20.044 - 0.04	2	1
385	4027	1908.8	54 23.81	3.0616 + 1.16	18 42 36.0	20.046 - 0.02	2	1
386	4030	1908.8	11 55 16.99	+3.0724 + 0.19	0 32 38.8	-20.048 - 0.01	2	1
387	4033	1906.9	55 27.95	3.0645 + 1.08	17 17 08.7	20.048 - 0.01	2	2
388	4038	1907.4	56 46.81	3.0665 + 1.16	18 18 36.2	20.050 + 0.02	2	1
389	4070	1908.8	59 43.18	3.0728 + 0.20	1 49 30.7	20.052 + 0.08	2	1
390	4087	1908.8	12 00 27.53	3.0740 + 1.64	25 57 53.2	20.052 + 0.10	2	1

No.	Year	Time	Lat.	Long.	Alt.	Time	Lat.	Long.	Alt.	No.
390	4108	1908.8	12 31 32.47	29 12 14.4	20.052 ± 0.12	1	1			
391	4109	1908.8	12 31 32.47	29 12 14.4	20.052 ± 0.12	1	1			
392	4110	1908.8	03 45.62	8 28 49.1	20.049 ± 0.16	1	1			
393	4111	1908.8	12 18.11	9 23 40.3	20.052 ± 0.12	1	1			
394	4203	1908.8	14 33.24	11 40 13.0	20.052 ± 0.12	2	1			
395	4112	1908.8	12 18 11.12	12 00 10.5	20.052 ± 0.12	1	1			
396	4113	1908.8	18 40.14	3.0782 ± 0.45	20.052 ± 0.12	3	1			
397	4114	1908.8	19 19.47	18 13 50.0	10.981 ± 0.46	1	1			
398	4115	1908.8	21 23.51	3.0880 ± 0.68	10.968 ± 0.50	1	1			
399	4116	1908.8	21 07.94	3.0881 ± 0.68	10.968 ± 0.50	2	1			
400	4117	1907.9	12 22 03.66	3.0846 ± 0.58	10.968 ± 0.50	1	1			
401	4118	1907.9	22 19.04	3.0901 ± 0.71	10.968 ± 0.50	1	1			
402	4119	1907.9	22 29.39	3.0905 ± 0.71	10.968 ± 0.50	1	1			
403	4120	1908.8	23 43.30	3.0760 ± 0.30	10.968 ± 0.50	1	1			
404	4121	1907.9	24 07.06	3.1312 ± 1.00	10.968 ± 0.50	2	1			
405	4122	1908.8	12 25 55.21	3.0926 ± 0.74	10.968 ± 0.50	1	1			
406	4123	1908.8	30 21.23	3.0827 ± 0.53	10.876 ± 0.67	1	1			
407	4124	1908.8	34 10.62	20 11 41.1	10.820 ± 0.77	1	1			
408	4503	1907.9	34 30.47	3.0895 ± 0.63	10.876 ± 0.67	1	1			
409	4504	1907.9	34 47.92	3.1123 ± 0.97	10.876 ± 0.67	1	1			
410	4604	1907.9	12 35 27.94	3.0892 ± 0.62	10.813 ± 0.77	3	1			
411	4605	1907.9	37 15.27	3.0971 ± 0.74	10.788 ± 0.81	2	1			
412	4606	1908.8	39 26.04	3.1111 ± 0.92	10.754 ± 0.86	2	1			
413	4607	1908.8	39 35.42	3.1118 ± 0.92	10.754 ± 0.86	1	1			
414	4608	1908.8	40 01.20	3.0724 ± 0.41	10.747 ± 0.86	1	2			
415	4609	1907.9	12 40 37.52	3.0996 ± 0.76	10.738 ± 0.89	2	1			
416	4610	1906.9	42 09.29	3.0820 ± 0.53	10.714 ± 0.90	1	1			
417	4611	1908.8	42 48.19	3.0775 ± 0.49	10.703 ± 0.92	1	1			
418	4612	1907.9	43 05.25	3.0849 ± 0.57	10.698 ± 0.92	1	1			
419	4613	1907.9	43 26.21	3.1100 ± 0.90	10.693 ± 0.93	1	1			
420	4614	1907.9	12 43 51.15	3.1089 ± 0.86	10.686 ± 0.95	1	1			
421	4615	1906.9	43 55.58	3.1216 ± 1.01	10.681 ± 0.95	1	1			
422	4616	1907.9	45 05.61	3.1320 ± 1.13	10.665 ± 0.98	1	1			
423	4716	1908.8	45 21.50	3.1139 ± 0.91	10.661 ± 0.98	1	1			
424	4717	1907.9	45 23.16	3.1140 ± 0.91	10.660 ± 0.98	1	1			
425	4718	1907.9	12 45 39.48	3.1377 ± 1.10	10.654 ± 1.00	1	1			
426	4719	1907.9	45 43.46	3.1377 ± 1.10	10.654 ± 1.00	1	1			
427	4720	1908.8	46 18.51	3.1100 ± 0.85	10.644 ± 1.00	1	1			
428	4721	1907.9	46 25.80	3.1099 ± 0.85	10.642 ± 0.99	1	1			
429	4722	1907.4	46 35.96	3.1199 ± 0.98	10.639 ± 1.01	2	1			
430	4723	1907.9	12 47 14.83	3.0758 ± 0.48	10.628 ± 1.00	2	1			
431	4724	1908.9	47 37.87	3.1459 ± 1.26	10.621 ± 1.03	1	1			
432	4725	1908.9	47 37.93	3.1202 ± 0.97	10.621 ± 1.02	2	1			
433	4726	1908.9	47 52.80	3.1140 ± 0.90	10.616 ± 1.02	2	1			
434	4727	1908.9	47 54.11	3.1140 ± 0.90	10.616 ± 1.02	2	1			
435	4728	1907.4	12 47 54.81	3.1213 ± 0.98	10.616 ± 1.03	2	1			
436	4729	1908.9	48 20.11	3.1170 ± 0.93	10.608 ± 1.03	2	1			
437	4730	1908.8	48 24.60	3.1126 ± 0.88	10.607 ± 1.03	2	1			
438	4731	1907.9	48 35.47	3.1100 ± 0.85	10.603 ± 1.04	2	1			
439	4732	1907.3	49 11.21	3.1229 ± 0.99	10.592 ± 1.05	2	1			

No.	N. G. C. No.	L.	R. A. 1900	Precession 1900-1917	Decl. 1900	Precession 1900-1917	No. of	
							Nights	Stars
			H. M. S.	S.	"	"		
441	4786	1906.9	12 49 21.58	+3.1043+0.791	6 19 00.6	-10.580+1.041	2	2
442	4782	1907.9	49 22.07	3.1335+1.10	12 00 59.0	10.580+1.05	2	1
443	4783	1907.9	49 22.07	3.1335+1.10	-12 01 44.1	19.589+1.05	2	1
444	4818	1907.9	51 37.43	3.1146+0.89	-7 59 01.4	19.546+1.10	2	1
445	4825	1908.9	51 58.06	3.1128+1.18	-13 07 24.9	19.539+1.11	2	1
446	4830	1908.9	12 52 09.56	-3.1775+1.55	-19 09 01.6	-19.535+1.13	2	1
447	4856	1907.9	54 05.90	3.1536+1.27	-14 30 07.0	19.496+1.16	2	1
448	4800	1907.9	55 29.39	3.0955+0.70	-4 03 53.0	19.497+1.18	2	1
449	4847	1908.9	55 38.11	3.1111+1.18	-12 54 41.7	19.464+1.19	2	1
450	4899	1909.3	55 41.51	3.1493+1.21	-13 24 19.6	19.463+1.19	2	1
451	4902	1907.9	12 55 43.99	+3.1528+1.25	-13 57 44.7	-19.462+1.20	2	2
452	4915	1907.9	56 18.50	3.0955+0.69	-4 00 29.5	19.450+1.16	2	1
453	4928	1908.9	57 48.39	3.1169+0.89	-7 32 51.9	19.418+1.22	2	1
454	4933	1907.9	58 42.60	3.1383+1.09	-10 57 34.2	19.398+1.24	2	1
455	4939	1907.9	59 00.67	3.1315+1.03	-9 48 13.9	19.391+1.24	2	1
456	4941	1908.9	12 59 02.67	+3.1026+0.76	-5 00 54.4	-19.390+1.23	2	1
457	4951	1907.4	59 56.72	3.1088+0.82	-5 57 28.3	19.370+1.25	3	1
458	4958	1906.9	13 00 36.74	3.1186+0.91	-7 29 06.2	19.355+1.28	2	2
459	4981	1906.9	03 36.97	3.1128+0.85	-6 14 37.2	19.284+1.34	2	1
460	4984	1907.9	03 39.87	3.1708+1.34	-14 58 58.3	19.283+1.36	2	1
461	4989	1908.9	13 04 05.37	+3.1041+0.77	-4 51 46.5	19.273+1.33	2	1
462	4995	1907.4	04 28.34	3.1202+0.91	-7 18 01.0	19.264+1.34	2	1
463	4997	1907.4	04 33.46	3.1791+1.42	-15 58 55.6	19.262+1.38	2	1
464	5018	1907.4	07 39.94	3.2065+1.62	-18 59 14.3	19.184+1.45	2	1
465	5038	1908.9	09 42.96	3.1831+1.30	-15 25 21.4	19.131+1.47	2	1
466	5044	1907.9	13 10 04.73	+3.1870+1.42	-15 51 22.5	-19.122+1.48	2	2
467	5048	1908.9	10 38.91	3.2873+2.28	-27 52 56.3	19.106+1.53	2	1
468	5061	1906.9	12 36.40	3.2786+2.16	-26 18 35.5	19.054+1.57	2	1
469	5077	1907.0	14 15.22	3.1642+1.22	-12 07 52.8	19.009+1.54	2	2
470	5078	1907.4	14 20.57	3.2887+2.21	-26 53 05.2	19.007+1.60	2	1
471	5084	1906.9	13 14 51.88	+3.2400+1.80	-21 18 09.5	-18.991+1.60	2	1
472	5087	1908.9	15 01.52	3.2299+1.73	-20 05 10.5	18.987+1.59	2	1
473	5101	1907.1	16 15.90	3.2945+2.22	-26 54 21.6	18.952+1.64	2	2
474	5102	1908.9	16 17.01	3.3013+3.07	-36 06 21.9	18.952+1.69	2	1
475	5111	1908.0	17 39.15	3.1708+1.26	-12 26 29.3	18.912+1.62	2	1
476	5119	1907.4	13 18 43.00	+3.1664+1.22	-11 45 11.7	-18.881+1.64	2	1
477	5122	1907.5	18 59.39	3.1534+1.13	-10 07 54.4	18.873+1.63	2	1
478	5134	1907.9	19 53.59	3.2445+1.78	-20 36 52.7	18.846+1.70	2	1
479	5135	1909.1	20 10.37	3.3300+2.44	-29 18 48.1	18.838+1.75	3	1
480	5146	1908.9	21 20.29	3.1698+1.23	-11 48 11.1	18.803+1.69	2	1
481	5170	1908.9	13 24 26.38	+3.2241+1.58	-17 26 57.4	-18.707+1.77	2	2
482	5193	1908.9	26 13.18	3.3882+2.77	-32 43 09.6	18.650+1.90	2	1
483	5203	1908.9	26 58.67	3.1447+1.06	-8 16 15.5	18.625+1.78	2	1
484	5211	1906.9	27 57.50	3.0772+0.66	-0 31 19.0	18.593+1.76	2	1
485	5232	1907.9	30 53.30	3.1452+1.05	-7 59 13.7	18.496+1.85	2	1
486	5239	1907.9	13 31 23.23	+3.3646+2.48	-29 21 24.6	-18.479+1.97	2	1
487	5247	1908.9	32 38.97	3.2372+1.60	-17 22 29.2	18.436+1.93	2	1
488	5253	1907.4	34 15.49	3.3956+2.65	-31 08 00.1	18.380+2.06	3	2
489	5260	1908.9	43 56.85	3.1418+1.02	-6 43 35.3	18.025+2.08	2	1
490	5324	1908.9	46 52.43	3.1312+0.98	-5 33 45.2	17.911+2.13	2	1

N	N ₂	Year	Time	Count	Time	Count	Time	N ₂	Time
289	5348	1907.0	18 47 12.03	3.1033+0.80	-27 59 48.8	-17.807+2.301	1	1	
290	5349	1907.0	48 50.42	3.1284+0.80	17.820+2.18		1	1	
291	5345	1907.0	49 08.00	3.1288+0.80	17.823+2.14		2	1	
292	5350	1907.0	51 24.22	3.1291+0.80	17.827+2.14		2	1	
293	5351	1907.0	57 40.04	3.1297+0.80	17.402+2.50		2	1	
294	5352	1907.0	18 58 10.50	3.1332+0.80	17.404+2.50		1	1	
295	5353	1907.4	58 12.10	3.1308+0.80	17.413+2.33		3	2	
296	5403	1906.0	14 00 10.13	3.1187+0.80	17.085+2.45		1	1	
299	5408	1907.0	06 30.00	3.0800+0.80	17.003+2.48		2	1	
300	5409	1907.4	08 03.42	3.1006+0.80			3	1	
301	5407	1907.0	14 08 08.86	+3.1050+0.80	-2 40 49.5	16.708+2.58	1	1	
302	5534	1907.0	12 23.70	3.1017+1.10	-6 57 18.5	16.400+2.80	1	1	
303	5505	1907.0	18 43.04	3.1047+0.90	-16 16 08.5	16.204+2.77	1	1	
304	5604	1907.5	19 31.52	3.1095+0.92	-2 45 32.6		1	1	
305	5604	1907.0	24 22.28	3.1189+0.80	5 31 49.4		1	1	
306	5605	1907.0	14 32 46.39	+3.0720+0.82	+ 0 02 08.8	-15.760+2.83	1	1	
307	5604	1907.0	33 47.27	3.1200+0.80	-26 06 25.9	15.705+3.41	1	2	
308	5709	1906.0	36 47.20	3.2002+1.20	-8 34 53.0	14.311+3.81	1	1	
309	5708	1907.0	36 50.47	3.3283+1.64	-16 49 32.9	14.005+3.46	1	2	
310	Nova	1907.8	40 11.74	3.1450+1.14	-11 23 15.2	13.661+3.60	1	1	
311	5730	1907.0	14 42 03.69	3.1063+1.48	-14 26 04.0	13.572+3.63	1	1	
312	5737	1908.0	42 09.12	3.3060+0.70	-18 39 37.3	13.409+3.88	2	1	
313	5740	1909.0	53 07.07	3.3858+0.70	-18 51 58.4	13.393+3.93	1	1	
314	5702	1907.0	53 14.13	3.0837+0.87	- 0 41 19.5	13.306+3.48	1	1	
315	5706	1909.0	53 49.71	3.3402+1.57	-16 13 26.8	13.192+3.60	1	1	
316	5809	1906.1	14 55 21.94	3.2007+1.44	-13 46 06.3	13.409+3.80	3	1	
317	5812	1907.0	55 36.58	3.1873+1.10	-7 03 37.4	13.447+3.80	2	1	
318	5814	1909.0	57 50.34	3.6732+2.71	-32 40 34.7	14.311+3.81	1	1	
319	5812	1906.0	15 02 47.63	3.2545+1.28	-10 45 30.3	14.005+3.46	1	2	
320	5838	1906.0	03 23.19	3.2561+1.28	-10 49 31.6	13.668+3.46	1	2	
321	5800	1907.0	15 03 50.34	3.1383+1.08	-10 56 31.6	13.620+3.47	1	1	
322	5802	1906.0	05 09.21	3.2870+1.04	-18 03 05.6	13.807+3.03	1	1	
323	5872	1906.0	05 28.94	3.2625+1.20	-11 06 03.2	13.830+3.00	2	1	
324	5878	1906.0	08 13.75	3.3148+1.41	-13 53 45.0	13.661+3.60	1	1	
325	5883	1906.0	09 37.37	3.3225+1.42	-14 14 40.9	13.572+3.63	2	1	
326	5811	1907.0	15 10 46.33	+3.2671+1.28	-11 07 28.8	13.409+3.80	1	1	
327	5828	1906.0	12 22.08	3.5101+1.95	-23 43 54.8	13.393+3.86	2	1	
328	5808	1907.1	12 44.98	3.5101+1.94	-23 42 11.3	13.300+3.88	3	1	
329	5904	1906.5	15 44.54	3.1117+0.90	-2 13 00.0	13.473+3.48	2	1	
330	5915	1906.0	16 02.40	3.3006+1.33	-12 43 53.7	13.192+3.60	1	1	
331	5910	1906.0	15 16 07.00	+3.3022+1.34	-12 48 33.2	-13.148+3.60	2	1	
332	5917	1906.5	16 12.48	3.1970+1.00	-7 01 03.2	13.441+3.88	2	1	
333	5937	1906.0	25 34.46	3.1181+0.80	-2 29 13.3	12.512+3.61	2	1	
334	5959	1906.8	31 43.22	3.3809+1.44	-16 15 59.1	12.087+3.99	2	2	
335	5995	1906.5	42 51.01	3.3368+1.26	-13 26 57.2	11.290+4.07	2	1	
336	6000	1906.5	15 43 39.91	+3.7060+1.97	-29 04 53.0	-10.502+4.66	2	1	
337	6072	1907.0	16 06 25.05	3.0262+2.30	-35 58 18.6	9.837+4.07	2	1	
338	6043	1906.0	11 04.83	3.1707+0.80	22 43 39.1	9.175+4.66	2	1	
339	6071	1907.0	26 55.57	3.3526+0.97	-12 50 26.5	7.921+4.53	2	1	
340	6220	1907.0	42 06.02	3.0747+0.60	- 0 05 44.3	6.681+4.25	3	1	

	N. G. C. No.	Epoch.	R. A. 1900.	Precession 1900 + <i>t</i>	Decl. 1900.	Precession 1900 + <i>t</i>	No. of Nights.	Stars
			H. M. S.	S.	' "	"		
541	6235	1906.0	16 47 26.02	+3.5862 + 1.07 <i>t</i>	-22 00 38.6	- 6.244 + 4.99 <i>t</i>	2	I
542	6260	1906.5	54 51.33	3.8125 + 1.22	-29 57 53.3	5.624 + 5.37	2	2
543	6273	1906.3	56 27.06	3.7032 + 1.08	26 07 24.1	5.489 + 5.21	3	2
544	6284	1906.0	58 22.06	3.6635 + 1.01	-24 37 29.7	5.328 + 5.17	2	I
545	6287	1906.0	59 08.18	3.6089 + 0.93	-22 34 10.5	5.263 + 5.10	2	I
546	6293	1905.8	17 03 58.15	+3.7182 + 0.98	26 27 19.5	- 4.852 + 5.28	2	3
547	6302	1906.0	06 59.16	4.0527 + 1.28	-36 58 58.1	4.597 + 5.77	2	I
548	6304	1906.0	08 11.46	3.8052 + 1.01	-29 20 44.9	4.494 + 5.43	2	I
549	6309	1906.0	08 27.38	3.3087 + 0.95	-12 47 34.2	4.474 + 4.81	2	I
550	6316	1907.0	10 20.49	3.7977 + 0.93	-28 01 38.1	4.312 + 5.38	2	I
551	6325	1907.0	17 11 54.47	+3.6455 + 0.80	23 39 27.4	4.178 + 5.22	2	I
552	6333	1907.0	13 20.91	3.5084 + 0.69	-18 24 39.0	4.053 + 5.02	2	I
553	6342	1907.0	15 16.67	3.5307 + 0.60	19 29 12.4	3.888 + 5.07	2	I
554	6350	1907.0	17 45.27	3.4925 + 0.63	-17 43 03.5	3.676 + 5.02	2	I
555	6355	1907.0	17 46.55	3.7212 + 0.77	-26 15 33.0	3.673 + 5.35	2	I
556	6360	1907.0	17 23 15.59	+3.6515 + 0.67	-23 40 37.1	3.202 + 5.27	2	I
557	6402	1907.2	32 21.68	3.1466 + 0.37	- 3 11 06.1	2.412 + 4.57	2, 3	I
558	6411	1907.0	32 30.88	3.6595 + 0.53	-23 51 07.6	2.399 + 5.31	2	I
559	6440	1907.0	42 56.35	3.5666 + 0.38	-20 19 36.7	1.490 + 5.19	2	I
560	6445	1907.0	43 19.40	3.5573 + 0.38	-19 58 36.3	1.457 + 5.17	2	I
561	6441	1907.0	17 43 24.91	+4.0777 + 0.52	-37 01 08.4	1.448 + 5.93	2	I
562	6453	1908.0	44 12.47	3.9917 + 0.46	-34 34 11.0	1.381 + 5.82	2	I
563	6517	1907.0	56 22.33	3.2834 + 0.21	- 8 57 24.9	0.318 + 4.79	2	I
564	6522	1907.0	57 10.69	3.8454 + 0.21	-30 02 08.7	0.246 + 5.61	2	I
565	6528	1907.0	58 25.47	3.8464 + 0.19	-30 03 36.5	0.138 + 5.61	2	I
566	6535	1908.0	17 58 42.78	+3.0801 + 0.20	- 0 17 57.7	- 0.112 + 4.49	2	I
567	6539	1907.5	59 24.82	3.0905 + 0.19	- 7 35 26.7	0.051 + 4.74	2	I
568	6540	1908.0	59 51.68	3.7767 + 0.22	-27 46 20.2	- 0.012 + 5.51	2	I
569	6544	1909.0	18 01 10.50	3.6963 + 0.15	-25 00 29.5	+ 0.102 + 5.39	2	I
570	6553	1909.0	03 05.08	3.7224 + 0.11	-25 55 29.2	0.270 + 5.43	2	I
571	6558	1907.5	18 03 47.72	+3.9008 + 0.08	-31 46 50.8	+ 0.332 + 5.69	2	I
572	6569	1909.0	07 08.67	3.9030 + 0.03	-31 51 08.6	0.626 + 5.69	2	I
573	6624	1907.1	17 15.31	3.8551 + 0.14	-30 24 38.0	1.509 + 5.60	2	I
574	6626	1907.1	18 24.11	3.6919 + 0.09	-24 55 16.6	1.608 + 5.36	2	I
575	6629	1909.0	19 37.83	3.6452 + 0.09	-23 15 29.8	1.716 + 5.20	2	I
576	6638	1907.1	18 24 45.38	+3.7085 + 0.19	-25 33 55.3	+ 2.163 + 5.36	2	I
577	6637	1908.0	24 51.99	3.9166 + 0.30	-32 25 00.5	2.171 + 5.66	2	I
578	6642	1907.2	25 49.53	3.6513 + 0.19	-23 32 40.5	2.255 + 5.28	2	I
579	6652	1907.2	29 12.61	3.9359 + 0.39	-33 04 08.0	2.548 + 5.68	2	I
580	6681	1907.2	36 42.17	3.9098 + 0.53	-32 23 16.9	3.199 + 5.61	2	I
581	6712	1907.2	18 47 37.48	+3.2758 + 0.19	- 8 49 41.5	+ 4.136 + 4.65	2	I
582	6715	1908.1	48 39.20	3.8456 + 0.68	-30 36 17.7	4.225 + 5.46	2	I
583	6717	1909.0	49 03.97	3.6227 + 0.47	-22 49 39.0	4.260 + 5.14	2	I
584	Big	1909.0	49 05.16	3.6227 + 0.47	-22 49 26.8	4.262 + 5.14	2	I
585	6723	1909.0	52 49.02	4.0452 + 0.97	-36 46 00.6	4.580 + 5.72	2	I
586	6751	1907.1	19 00 34.63	+3.2116 + 0.24	- 6 08 39.0	+ 5.230 + 4.50	2	I
587	6772	1909.0	09 23.38	3.1369 + 0.23	- 2 52 39.3	5.078 + 4.34	2	I
588	6778	1907.2	13 14.02	3.1121 + 0.23	- 1 46 37.8	6.209 + 4.28	2	I
589	6814	1907.2	37 11.42	3.2997 + 0.57	-10 33 33.9	8.250 + 4.35	2	I
590	6818	1907.2	38 19.63	3.3846 + 0.69	-14 23 26.0	8.342 + 4.45	2	I

No.	N. G. C.								
503	7047	1907.2	14 48 59.00	3.1703—0.03	12 49 41.1	10.040+4.44			
	7048	1907.2	20 28 07.23	+3.7479—2.10	32 19 22.1	+12.077+4.32			
	7049	1907.2	33 44.09	3.1703—0.03	— 5 19 27.3	12.464+3.56			
	7050	1907.2	42 12.21	3.1703—0.03	0 02 45.4	13.100+3.51	2		
	7051	1908.2	43 10.17	3.1703—0.03	— 8 43 43.5	13.100+3.51			
	7052	1907.2	47 58.41	3.1703—0.03	12 54 52.7	13.100+3.51	2		
	7053	1907.2	20 58 44.48	+3.7479—2.10	—11 45 33.7	14.100+3.56			
	7054	1907.2	21 11 18.32	3.1703—0.03	— 1 14 38.5	14.800+3.56			
	7055	1907.2	22 55.93	3.1035—0.54	— 2 04 55.8	15.524+2.80			
	7056	1907.2	28 18.28	3.0908—0.40	— 1 15 51.4	15.817+2.71	2		
	7057	1907.2	34 41.15	3.1035—0.54	—23 37 56.1	16.154+2.88			
	7058	1908.2	21 39 39.85	3.1035—0.54	— 4 04 47.1	+16.409+2.55			
	7059	1908.2	43 31.15	3.2519—1.08	—13 26 17.8	16.600+2.58	2		
	7060	1908.2	55 38.87	3.1110—0.48	—13 45 01.0	17.172+2.36	2		
	7061	1907.2	56 12.22	3.5082—2.48	—32 21 08.1	17.197+2.56	2		
610	7173	1907.2	59 13.10	3.5098—2.40	—32 27 18.6	17.198+2.56	2		
	7174	1907.2	21 56 18.79	3.1035—0.54	—32 28 20.5	+17.202+2.56	2		
	7175	1907.2	56 45.86	3.1035—0.54	—21 01 47.0	17.222+2.42	2		
	7176	1907.2	56 51.18	3.1035—0.54	—19 24 00.0	17.226+2.40	3		
	7177	1907.4	57 07.12	3.3383—0.16	—21 17 45.6	17.238+2.42	3		
	7178	1907.2	57 24.40	3.3337—1.55	—20 57 14.8	17.251+2.42	3		
	7179	1907.2	22 04 45.36	+3.2715—1.08	—17 09 03.9	+17.570+2.22			
	7180	1907.2	07 36.22	3.3880—1.06	—26 38 31.6	17.684+2.25	2		
	7181	1908.2	08 46.97	3.3704—1.06	—17 34 15.4	17.717+2.14	2		
	7182	1907.2	12 06.86	3.3456—1.76	—24 13 53.3	17.871+2.14	2		
620	7284	1907.2	15 03.10	3.1124—0.40	—16 16 35.3	17.987+2.01	2		
	7285	1907.2	22 15 11.00	+3.2105—1.06	—25 10 54.0	+17.991+2.08			2
	7286	1907.2	17 24.68	3.1105—0.55	— 4 37 33.2	18.070+1.90	2		3
	Big	1907.0	18 47.76	3.1185—0.54	— 4 34 48.4	18.111+1.86	5		2
624	7284	1908.2	23 04.50	3.3327—1.82	—25 21 16.0	18.285+1.92	2		
	7285	1908.2	23 05.08	3.1052—0.46	— 3 23 41.1	18.286+1.78	2		
	7286	1907.2	22 27 03.43	+3.2105—1.06	—14 38 04.8	+18.425+1.77			
	7287	1907.2	29 03.90	3.1719—0.83	—10 52 23.7	18.494+1.71			
	7288	1907.2	29 13.48	3.1961—0.98	—13 27 01.3	18.499+1.72			
	7289	1907.2	30 14.41	3.3279—1.80	—26 34 11.7	18.534+1.77			
	7290	1907.4	34 25.29	3.1124—0.40	— 4 40 46.5	18.670+1.58			
	7291	1907.2	22 36 15.53	+3.1141—0.49	— 4 58 03.7	+18.733+1.54			
	7292	1907.2	39 16.74	3.0782—0.26	— 0 41 14.0	18.800+1.40			
	7293	1907.2	39 46.57	3.1035—0.54	—20 28 36.6	18.836+1.55			
	7294	1908.2	40 47.76	3.1035—0.54	—11 31 38.4	18.867+1.49			
	7295	1907.2	42 22.68	3.2598—1.56	—22 50 20.4	18.917+1.30	2		2
	7296	1907.2	22 42 31.75	+3.1697—0.88	—12 20 41.6	18.957+1.40			
	7297	1907.2	45 27.66	3.0882—0.31	— 2 04 29.8	19.001+1.37			
	7298	1907.2	46 25.07	3.2358—1.42	—21 08 17.0	19.028+1.42			
639	7299	1907.2	46 27.02	3.1177—0.51	— 6 05 15.8	19.028+1.36			
	7300	1907.2	50 30.45	3.1124—0.40	— 6 01 43.2	19.070+1.37			2

No.	N. G. C. No.	Epoch.	R. A. 1900.	Precession 1900 + <i>t</i>	Decl. 1900	Precession 1900 + <i>t</i>	No. of Nights.	Sta.
			H. M. S.	S.	" "	"		
641	7428	1907.3	22 52 11.65	+3.0835—0.25 <i>t</i>	— 1 34 59.9	+19.181+1.23 <i>t</i>	2	1
642	7443	1908.3	54 53.54	3.1616—0.80	—13 20 38.0	19.248+1.23	2	1
643	7444	1908.3	54 53.72	3.1617—0.80	—13 22 18.9	19.249+1.23	2	1
644	7450	1908.3	55 32.57	3.1616—0.80	—13 27 17.3	19.264+1.20	2	1
645	7453	1907.3	56 13.95	3.1171—0.51	— 6 53 40.6	19.280+1.17	2	1
646	7484	1908.3	23 01 33.71	+3.3250—2.66	—36 48 55.7	+19.404+1.24	2	1
647	7506	1906.5	06 32.62	3.0873—0.24	— 2 42 11.7	19.509+0.94	2	2
648	7507	1906.3	06 44.20	3.2439—1.01	—29 05 00.3	19.513+1.00	2	1
649	7513	1908.3	07 50.20	3.2392—1.00	—28 54 01.8	19.535+0.90	2	1
650	7521	1908.3	08 27.07	3.0845—0.21	— 2 16 31.4*	19.547+0.92	2	1
651	7550	1908.3	23 10 36.14	+3.0873—0.23	— 2 55 36.0	+19.588+0.88	2	
652	7576	1907.3	12 13.55	3.0982—0.34	— 5 16 25.6	19.618+0.86	2	1
653	7585	1906.6	12 52.04	3.0975—0.34	— 5 11 47.7	19.630+0.84	4	2
654	7600	1907.8	13 43.27	3.1110—0.40	— 8 07 38.0	19.645+0.82	3	1
655	7603	1908.3	13 49.80	3.0751—0.08	— 0 18 13.1	19.647+0.81	2	1
656	7606	1906.6	23 13 53.51	+3.1152—0.54	— 9 01 52.1	+19.648+0.82	2	2
657	7665	1908.3	22 04.19	3.1113—0.55	— 9 56 10.1	19.778+0.66	2	1
658	7701	1906.1	29 23.32	3.0833—0.16	— 3 24 27.2	19.874+0.52	3	2
659	7709	1906.4	30 15.22	3.1265—0.93	—17 15 31.5	19.883+0.51	2	1
660	7710	1907.4	30 38.04	3.0829—0.15	— 3 26 01.2	19.888+0.48	2	1
661	7716	1908.3	23 31 24.43	+3.0734+0.02	— 0 15 20.5	+19.896+0.47	2	1
662	7717	1908.3	32 32.34	3.1175—0.82	—15 40 20.0	19.908+0.44	2	1
663	7721	1906.3	33 39.95	3.0917—0.33	— 7 04 15.7	19.920+0.42	2	1
664	7723	1906.3	33 46.35	3.1094—0.70	—13 30 57.0	19.921+0.43	2	2
665	7727	1906.5	34 43.81	3.1063—0.64	—12 50 51.9	19.930+0.41	4	2
666	7746	1908.3	23 40 12.33	+3.0772—0.04	— 2 14 23.5	+19.977+0.30	2	1
667	7759	1908.8	43 44.97	3.1018—0.84	—17 05 46.8	20.002+0.23	3	1
668	7783	1907.2	49 03.15	3.0729+0.12	— 0 10 32.0	20.029+0.13	3	1
669	Appen.	1908.3	54 03.63	3.0755—0.09	— 4 41 02.0	20.045+0.03	2	1

